

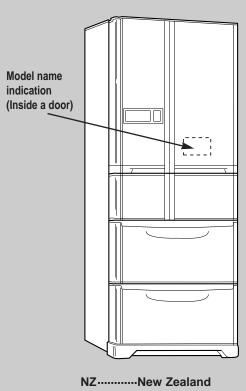
No. OA090

SERVICE MANUAL

MR-G50J-SS-NZ

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9. RoHS PARTS LIST------41

NOTE:

• RoHS compliant products have <G> mark on the spec name plate.

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FEATURES

MR-G50J-NZ

1. Vegetable compartment

(1)Mechanism

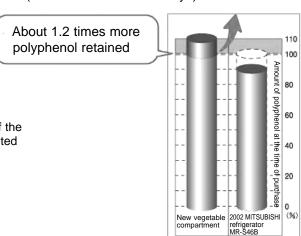
Two LED lights are mounted on the back and bottom of the vegetable compartment. The LED (UV LED) emits 375nm light, which is the effective wavelength for biosynthesis of polyphenol. This revolutionary vegetable compartment stimulates self-defense function of vegetables and increases polyphenol by irradiating ultraviolet light to vegetables for a certain period of time.

* The lighting of LED is not controlled by opening or closing of the vegetable compartment door. Thus, the LED may not be lighted when the door is opened.

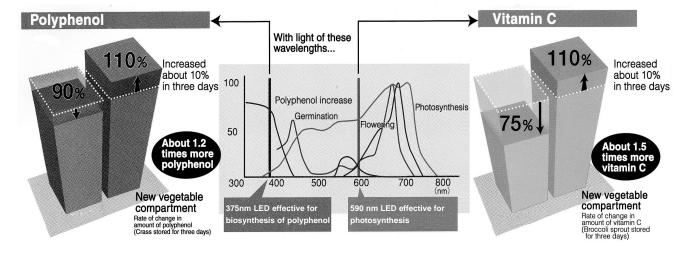
(2)Effect

Polyphenol in vegetables increased by 10% compared to the time of purchase, and the amount of retained polyphenol was 1.2 times more than that of the vegetables preserved in prior refrigerators without light radiation. (See graph)

Rate of change in amount of polyphenol (Cress stored for three days)



Among different wavelength of light included in sunlight, lights of wavelength that "stimulates photosynthesis" and "stimulates polyphenol increase" are used in the vegetable compartment.



2. " Auto Door Shut" function installed enable doors to be shut easily.

"Auto Door Shut" function automatically closes the door when its opened angle is less than 20 degrees.

3. Easy Access Vegetable room, Easy Access Freezer Room

The slide rollers enable smooth movement of vegetable and freezer rooms.

Double rails allow the rooms to be pulled out completely, providing easy access to even the back of the rooms.

▼Slide rollers



2 SPECIFICATIONS

SPECIFICATIONS MR-G50J-NZ

Power supply		V,Hz	230V,50Hz				
Total capacity L		L	492 (R:264 F:82 V:97 I:12 S:37)				
Dimensions (H x W x D) mm (inches)		inches)	1798 x 745 x 699 (70-25/32 x 29-11/32 x 27-17/32)				
Cabinet			Acrylic resin coated steel				
Food liner			ABS resin				
	Cabinet		Foamed polyurethane (Cyclopentane)				
Insulation	Freezer door		Foamed polyurethane (Cyclopentane)				
	Refrigerator of	loor	Foamed polyurethane (Cyclopentane)				
Cooling system Freezer			Forced air convection				
Cooling System	Refrigerator		Forced air convection				
Evaporator			Fin and tube type				
Condenser			Cabinet, cabinet ceiling, sides, back and front flange				
Defrost system			Automatic heater defrost				
Drain			Automatic drainage, Forced evaporation method				
Temperature control s	ystem		Automatic control				
Refrigerator compartn	nent room light		240V,10W (E12)				
			Free pocket (L)	2pcs.			
			Free pocket (S)	2pcs.			
			Bottle pocket (S)	1pc.			
			Bottle pocket (L)	1pc.			
			Tube stand	1pc.			
			Height adjustable shelf				
			Three-way flexishelf				
			Two-way flexishelf				
			Small item case				
			Free egg shelf	2pcs.			
			Slide chilled case	1pc.			
			Slide chilled case lid	1pc.			
Accessories			Versa case	1pc.			
			Aluminum tray (Versa case)	1pc.			
			Water tank (With light-type bacteria removing filter)	1pc.			
			Freezing case (upper)	1pc.			
			Freezing case (lower)	1pc.			
			Ice server	1pc.			
			Sound proof mat	1pc.			
			Ice storage bin	1pc.			
			Vegetable case	1pc.			
			Vegetable stand	1pc.			
			Sliding case (Vegetable case)	1pc.			
			Drain pan				
			Toe grille				
	Unit	kg	99	1pc.			
Weight	Shipping	kg	110				
Capillary tube		mm	φ1.6 x φ0.63 x 2680 / φ1.8 x φ0.67 x 2680				
Desiccant (molecular	sieve)	g	9				
Refrigerant filling capa	acity R600a	g	82				
Refrigerating oil (Mode	el)	g	187 (FREOL S10)				
,	*		, ,				

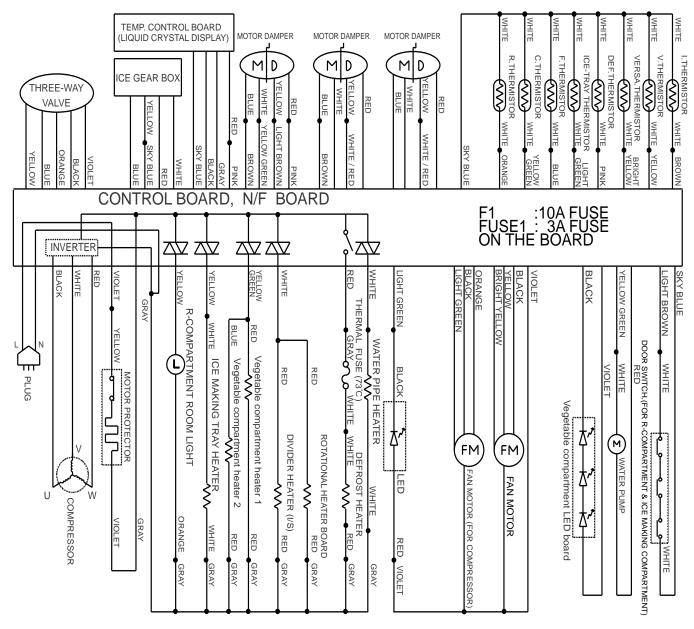
ELECTRICAL PARTS SPECIFICATIONS MR-G50J-NZ

		Model		ETI100E 13DAH		
		Power supply		230V,50Hz		
Comp	ressor	Rated input	W	45/159 (1620/4800rps)		
	103301	Starting current	tarting current A 2.0 (Current limiter)			
		Running current	Α	0.63/2.19 (1620/4800rps)		
		Winding resistance (A.	T.20°C)	9.27 Ω		
		Model		MM3-71CCV		
Motor	rprotoctor	Ambient temperature	°C	25		
MOTO	protector	Time	Sec.	16 or less		
		Current	Α	17.0		
Thron	way yalya	Model		NSCE001DC1		
inree	-way valve	Туре		4-phase stepping motor drive voltage DC12V		
	Defrosting	Model		Control board		
6	timer	Specification		Microcomputer		
Defrosting control		Defrost finish	°C	Thermistor 14±1.5		
frogont	Freezer	Thermal fuse	°C	70±2		
De	compartment	Defrost heater		325Ω (230V,163W)		
		Deodorizing function of defrost heater		Not Equipped		
		Model		UDQM002B3		
		Туре		DC brushless motor		
	Refrigerator	Input	W	2.4 (12V DC)		
_		Revolution	rpm	1520 (12V DC)		
otc		Number of poles		10P		
Fan motor		Model		UDQM004B3		
Еа		Туре		DC brushless motor		
	Machine Chamber	Input	W	1 (12V DC)		
	Chamber	Revolution	rpm	1200 (12V DC)		
		Number of poles		10P		
		Water pipe heater		230V-8.0W		
		Rotational heater be	oard	230V-8.0W		
Heate	\r	Divider heater (I/S)		230V-5.5W		
(Ratin	-	Vegetable compartment h	eater 1	230V-9.0W		
,	-9/	Vegetable compartment h	eater 2	230V-9.0W		
		Ice making tray hea		220V-10.0W		
Ice ma	aker tempera		°C	-11.6		
Toe maker temper						

								NTC the	ermisto	r					
	Model		Freezer		Refrigerator		Versa SI		Slide	Slide chilled		Ice making		Vegetable	
			Comp	ressor				Motor	damper				Hea	iter	
	Dial position		ON	OFF	OPEN	SHUT	OPEN	SHUT	OPEN	SHUT	OPEN	SHUT	ON	OFF	
_	Н	°C	-20.3	-24.1	-0.6	-1.8	-	_	-	-	_	_	2.3	3.5	
to	MID	°C	-17.6	-21.4	1.6	0.4	_	_	_	_	_	_	3.2	4.5	
control	LOW	°C	-14.9	-18.7	4.8	3.5	_	_	_	_	_	_	4.2	5.4	
<u>ē</u>	REFRIGERATOR	°C	_	_	_	_	4.4	2.4	_	_	1.2	-0.1	_	_	
ratu	CHILLED	°C	_	_	_	_	1.8	-0.1	-1.0	-2.3	_	_	_	-	
be	LOW (Soft freezing)	°C	_	_	_	_	-2.3	-4.0	_	_	_	_	_	-	
Temperature	MID (Soft freezing)	°C	_	_	_	_	-4.0	-5.9	_	_	_	_	_	_	
•	HI (Soft freezing)	°C	_	_	_	_	-5.9	-7.7	_	_	_	_	_	_	
	FREEZER	°C	_	_	_	-	-17.1	-20.4	_	_	_	_	_	-	
	ICE MAKING	$^{\circ}$ C	_	_	_	_	_	_	_	-	-20.2	-23.1	_	-	
	ICE MAKING STOP	°C	_	_	_	_	_	_	_	_	-20.2	-23.1	-	-	
	CRYSTAL ICE MAKING	$^{\circ}$	_	_	_	_	_	_	_	_	-20.2	-23.1	_	_	

MR-G50J-NZ

(SKELTON WIRING DIAGRAM)

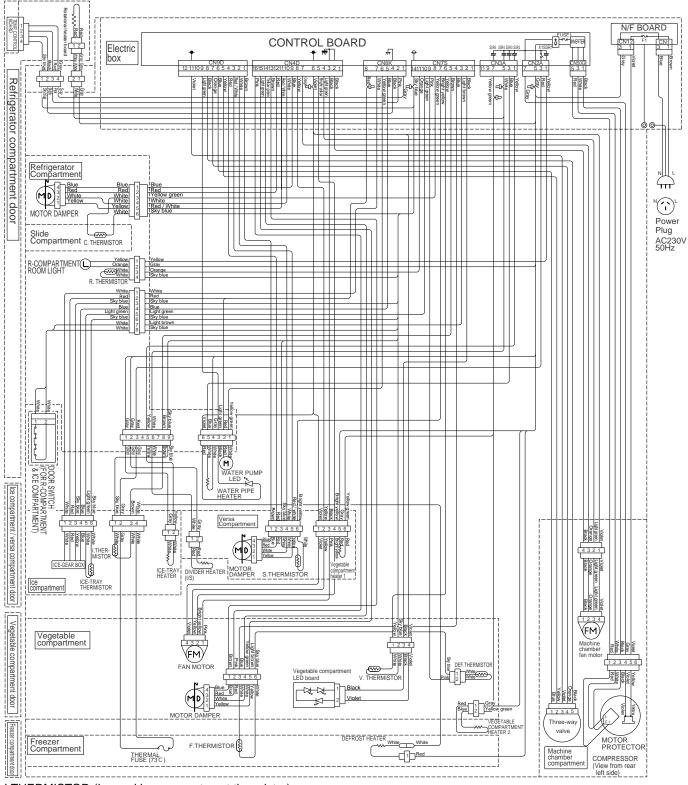


* WHEN THE DOORS ARE CLOSED.

I.THERMISTOR (Ice making compartment thermistor) V.THERMISTOR (Vegetable compartment thermistor) VERSA.THERMISTOR (Versa compartment thermistor) DEF.THERMISTOR (Defrost thermistor) ICE-TRAY THERMISTOR (Ice making tray thermistor) F.THERMISTOR (Freezer compartment thermistor) C.THERMISTOR (Slide chilled compartment thermistor) R.THERMISTOR (Refrigerator compartment thermistor)

MR-G50J-NZ

(ACTUAL WIRING DIAGRAM)



I.THERMISTOR (Ice making compartment thermistor)

V.THERMISTOR (Vegetable compartment thermistor)

S.THERMISTOR (Versa compartment thermistor)

DEF.THERMISTOR (Defrost thermistor)

ICE-TRAY THERMISTOR (Ice making tray thermistor)

F.THERMISTOR (Freezer compartment thermistor)

C.THERMISTOR (Slide chilled compartment thermistor)

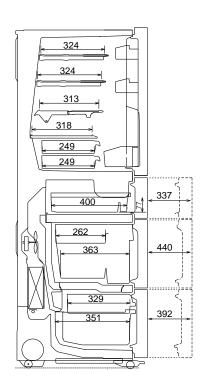
R.THERMISTOR (Refrigerator compartment thermistor)

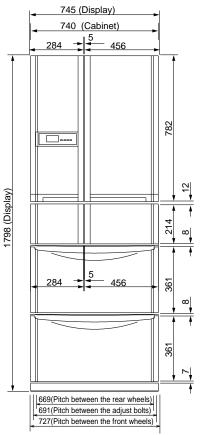
(When the doors are closed.)

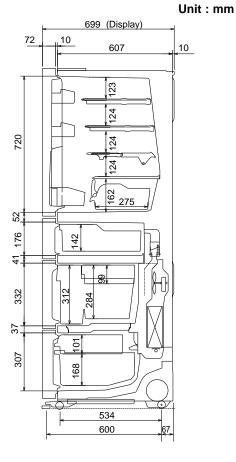
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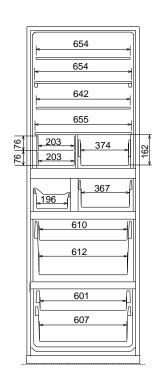
OUTLINES AND DIMENSIONS

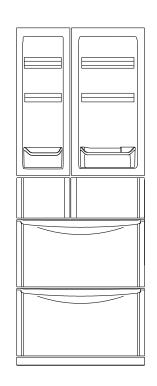
MR-G50J-NZ

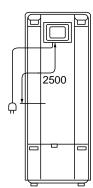




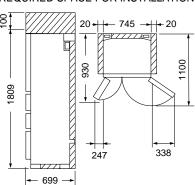








REQUIRED SPACE FOR INSTALLATION



	R(L)	R(R)	I	S	V	F
Н	782	782	214	214	361	361
W	284	456	284	456	745	745

R(L) : Refrigerator compartment (Left) R(R) : Refrigerator compartment (Right)

: Ice making compartment

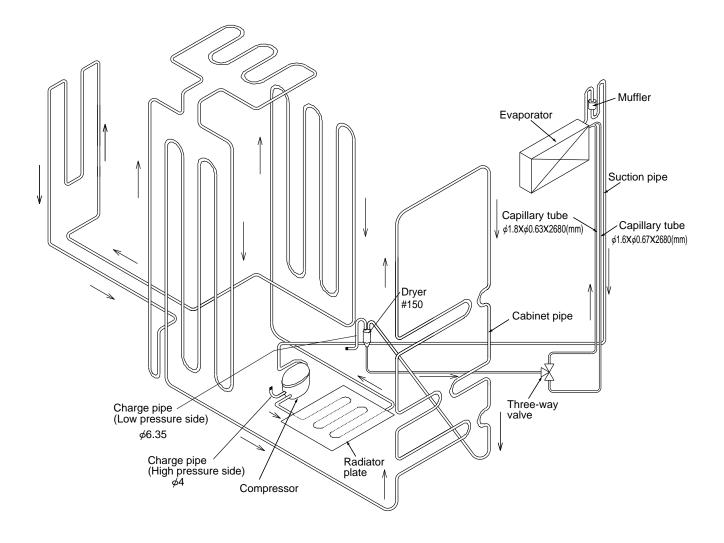
S : Select compartment [Versa compartment]

V : Vegetable compartment F : Freezer compartment

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REFRIGERANT CIRCUIT

MR-G50J-NZ



TROUBLESHOOTING

6-1 FUNCTION OF OPERATION PANEL MR-G50J-NZ (1) Function of normal operation **TEMP ROOM** FEATURE MODE SELECT QUICK ECO T/IMER ICE MAKER CLEANING START STOP Ġ (HOLD 5 SEC) SELECTION switch ECO MODE switch **MODE** switch **QUICK MODE switch** Each compartment can Each compartment The switch functions to set the ●The switch functions to be cooled rapidly. can be operated with operation mode or temperature select the required Quick mode is finished energy saved. of compartments individually. compartment. automatically. MODE When setting the operation mode of refrigerator, vegetable, and freezer compartment to "Middle" at It automatically Press () switch and display the finishes about 2 hours later. required compartment to apply the the same time. function of temperature adjustment or quick mode. Press () switch for about 3 seconds until a "beep" sound is heard. When stopping **Convenient function** quick mode halfway Cooking timer switch again. SELECT Press switch and switch for 1 second at the same time. (© is displayed.) When stopping (Cooking timer can be released in the same way.) quick mode of all Cooking timer mode is set and "0" blinks. compartments at once SELECT Set the time with switch. → Press to start → Alarm sound will annonce the completion of cooking period. Press () switch for about (To stop the timer halfway through the operation, press 3 seconds against one of the compartments which is in again) QUICK MODE. Child lock * To reset the unit to the initial setting, press (Press () switch and for 3 seconds. The setting of the refrigerator switch for 3 seconds at the same time. compartment, vegetable compartment, and (& is displayed.) the freezer compartment will be set to "Middle", (Child lock can be released in the same way.) and fast cooling operation, energy-saving operation, and cooking timer setting for all compartments will be canceled. Ice making stop To use "ice making compartment" as "refrigerator to select "ice making compartment". compartment" SELECT → Select [ICE(STOP)] with switch. to select "ice making compartment." ON/OFF of LED for bacteria removal from water tank 3 After ice-making compartment is set to function as refrigerator, to select "vegetable compartment". take ice or water out of the ice tray which are automatically EC0 switch and switch for 3 seconds at the same time. dropped into ice storage bin. When ice-making function Press (★ is displayed.) will not be used for a while, wash the water tank well with water and place it back after drying thoroughly. Operating mode and Temperature range To get back to "ice making", just change the temperature setting.

Compartment	Mode	Temp range
Refrigeratorcompartment	Middle	Approx. 0 to 6°C
	Refrigerator	Approx. 0 to 6°C
Versa	Chilled	Approx2 to 2°C
compartment	Soft freezing (Middle)	Approx9 to -5°C
	Freezer	Approx18 to -16°C
laa makina	Refrigerator	Approx. 0 to 6°C
Ice making compartment	Ice making	Approx21 to -17°C
compartment	Ice making stop	Approx21 to -17°C
Vegetable compartment	Middle	Approx. 3 to 9℃
Freezer compartment	Middle	Approx21 to -17°C

^{*}The temp range above is based on the data measured at the center of each compartment with the door closed and with no food inside under the condition of ambient temperature 30°C. The range varies depending on circumstances.

(~	Demonstration mode for shop display
	Demonstration mode is not available when the temperature of freezer compartment is -7°C or less even if , and are simultaneously pressed for about 5 seconds and a "beep" sound is heard. Cooling operation starts instead.
ന :	Setting
	Within one minute after power supply is turned on, simultaneously press , , and switch for about 5 seconds with the door of ice making compartment left open. When the setting is complete, a "beep" sound is heard and "D" is displayed.
② ا	Panel operation mode during demonstration mode
	The panel operation mode changes to "manual" if any of the switches is pressed and it changes to "auto" if none of the
	switches is pressed within 3 minutes after demonstration mode is set.
	Manual mode: Panel indication changes according to switch operation.
	Auto mode: Panel indication is automatically changed.
③ I	Release SELECT QUICK ECO
_	Simultaneously press , and switch for about 5 seconds with the door of ice making compartment left open. When the function is released, a "beep" sound is heard. "D" disappears and the panel indication gets back to normal. Note: Follow the procedure above to release demonstration mode as it cannot be released by simply turning on/off the power supply.
(3)	Fine adjustment of temperature
(-)	Fine adjustment of temperature is available for refrigerator compartment, freezer compartment and versa compartment.
_	As for versa compartment, however, it is only available when the compartment is set to REF or FZR .
(I) :	Setting MODE
(Press switch to select refrigerator compartment, freezer compartment or versa compartment.
(Simultaneously press and for about 3 seconds until a "beep" sound is heard.
(The indication changes as show in the right.
•	Fine adjustments of temperature SELECT Temperature adjustment is made by approximately 0.3-0.5°C by pressing and it is indicated with 15-steps bars on the panel. The temperature displayed on the panel, however, changes by 1°C and might not change according to
	fine adjustment. Example of display: The select of the s
3 I	Example of display: M M M M M M M M M
③ I	n case of versa compartment Press to make versa compartment function as refrigerator or freezer. When the blinking marks on the display, REF or FZR, are lit in 3 seconds, apply fine adjustment of temperature. Release Follow the same procedure as setting and the finely-adjusted temperatures are reset for refrigerator compartment, freezer compartment and versa compartment at once. Ice making test / Self-check This function is not available during the following modes: Child lock, Demonstration, Cooking timer, Changing the otational speed of compressor, and Error code display.
(4)	n case of versa compartment Press to make versa compartment function as refrigerator or freezer. When the blinking marks on the display, REF or FZR, are lit in 3 seconds, apply fine adjustment of temperature. Release Follow the same procedure as setting and the finely-adjusted temperatures are reset for refrigerator compartment, freezer compartment and versa compartment at once. Ice making test / Self-check This function is not available during the following modes: Child lock, Demonstration, Cooking timer, Changing the obtational speed of compressor, and Error code display. Betting MODE
(4)	n case of versa compartment Press to make versa compartment function as refrigerator or freezer. When the blinking marks on the display, REF or FZR, are lit in 3 seconds, apply fine adjustment of temperature. Release Follow the same procedure as setting and the finely-adjusted temperatures are reset for refrigerator compartment, freezer compartment and versa compartment at once. Ice making test / Self-check This function is not available during the following modes: Child lock, Demonstration, Cooking timer, Changing the otational speed of compressor, and Error code display. Setting
(4) (0)	n case of versa compartment Press to make versa compartment function as refrigerator or freezer. When the blinking marks on the display, REF or FZR, are lit in 3 seconds, apply fine adjustment of temperature. Release Follow the same procedure as setting and the finely-adjusted temperatures are reset for refrigerator compartment, freezer compartment and versa compartment at once. Ice making test / Self-check This function is not available during the following modes: Child lock, Demonstration, Cooking timer, Changing the obtational speed of compressor, and Error code display. Betting MODE
(4) (2)	n case of versa compartment Press SELECT to make versa compartment function as refrigerator or freezer. When the blinking marks on the display, REF or FZR, are lit in 3 seconds, apply fine adjustment of temperature. Release Follow the same procedure as setting and the finely-adjusted temperatures are reset for refrigerator compartment, freezer compartment and versa compartment at once. Ice making test / Self-check This function is not available during the following modes: Child lock, Demonstration, Cooking timer, Changing the otational speed of compressor, and Error code display. Setting Press for about five seconds. Deparation and its display While automatic ice making is testing, the indication of ice making compartment setting blinks on LCD.
(4) (4) (3) (5)	Example of display: Note

●Press ○ with the door left open.

2 Display

After the setting is complete, the kinds of thermistor and its temperature are alternately shown on the panel. In case of abnormality, the display returns to current temperature. Please note that the temperature detected by thermistor may be a little different from the real one due to the influence of refrigerator temperature.

Kind of thermistor	Defrosting	Refrigerator compartment	Slide chilled compartment	Ice making compartment	Versa compartment	Ice making tray	Vegetable compartment	Freezer compartment	Outside air
Display	<u>'</u>	K	1	K	5		41	Ļ	
	(d)	(R)	(C)	(K)	(S)	(I)	(V)	(F)	(O)

③ Change of display	SELECT		(Ex.) When defrost
While thermistor temperature check n	node is set, press $igcirc$. A	short beep sound is heard	thermistor reads -28°C.
and the thermistor is changed in the o			TEMP
Defrosting → Refrigerator co		chilled compartment ——> compartment ——> Ice m	· —
		compartment — Out	
* The defrosting thermistor is always	ays selected first at the be	ginning of the setting.	
Release		MODE	$\downarrow \uparrow$
•With the door of ice making comparts	nent left open, simultaneo	usly press and	TEMP
for about 3 seconds until a beep sour	nd is heard. The temperat		rs =====
and the display gets back to current t The function is automatically released			weid releasing - 28 %
 Follow the procedure above to releas it by plugging and unplugging the por 	e this mode. For the prev	ention of the compressor, a	void releasing
(6) Change mode of compres	sor rotational spe	ed	
Operation sound can be checked by	-		s conduct a check while the
compressor is operating and the "-" m			
display, unplug the power cord and the		· · · · · · · · · · · · · · · · · · ·	
available during the following modes:	Child lock, Demonstration	n, Cooking timer, Thermisto	or temperature check and error
code display. ① Setting		MODE QUICK	(Ex.) When the rotational
●With the door of ice making compartn	nent left open, simultaneo	usly press and	speed is 52 rps TEMP
for about 3 seconds until a "beep" so	und is heard, and "88" bli	nks.	T LIVIT
●Press with the door left open.			52°
② Changing the rotational speed	FOT		
●After the setting is complete, press (_ ' '	ed of compressor alternate	ly changes in 6 steps.
The rotational speed (rps) is shown of	n the panel. Basically the	compressor starts operating	g at level 5, however, it depends
on model or specification change.			Normal
Level 0 Level 1	→ Lovel 2 → Love	12 → Laval 4 → [Level 5
Low speed Level 1	Level 2 Level	Level 4	High speed
* Note: Operation sound may get	increased in the process	of changing the speed, but	that does not mean any
problem. Check the operate			•
③ ON and OFF of machine chamber far	n motor		MODE
Under this function, fan motor in machin The on/off state is shown with () mark		ned on and off at each pres	ss of () switch.
Machine chamber fan motor	Display of 🕒		
ON	Displayed 🕒		
OFF	Not displayed		
OI I	1 tot displayed		
Release		MODE QUICK	
•With the door of ice making comparts "beep" sound is heard. The screen re	nent lett open, simultaneo turns to the temperature o	usly press () and () i display.	for about 3 seconds until a
●The function is automatically released	d one-hour later.	. ,	

The function is automatically released one-hour later.
 Follow the procedure above to release this function. For the prevention of the compressor, avoid releasing it by plugging and unplugging the power cord.

(7) Damper Operation Mode

During damper operation mode, the damper is forcibly opened and closed and the state of damper is shown on the panel.

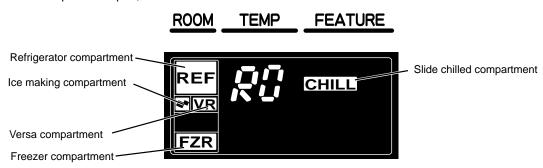
① Setting

- ●With the ice making compartment door left open, simultaneously press and for about 3 seconds until a "beep" sound is heard, and "88" blinks.
- ●With the door left open, simultaneously press on and of for about 3 seconds until a "beep" sound is heard.

2 Status display of each damper

Each compartment display turns on when each damper is open and turns off when each damper is closed.

Ex.) When all dampers are open;



3 How to make each damper open or close

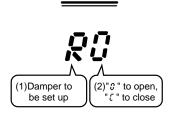
Although the state is shown on the panel, check airflow and confirm the damper is really opened or closed. However, air does not come out when the door is closed, so put a magnet on the door switch to simulate the condition of the door closed.

Change of display

Kind of damper	Refrigerator compartment	Slide chilled compartment	Ice making compartment	Versa compartment	Freezer compartment
Display	K			5	ŗ
	(R)	(C)	(I)	(S)	(F)

(Ex.) When making the damper of refrigerator compartment open

TEMP



(1)Press () to select the damper to be set up.

A "beep" sound is heard and the kind of damper is changed every time is pressed

(2)Press \bigcirc to " \mathcal{Q} " to open the damper or " \mathcal{L} " to close the damper.

(3)Press of or about 3 seconds to convey the setting to the damper. A"beep"sound is heard if the setting has been conveyed. After the setting is conveyed, the damper starts operating and the display blinks. It stops blinking and starts to light when the operation stops automatically. Please note that the setting cannot be changed when the damper is operating.

As the damper of slide chilled compartment opens and closes in conjunction with the damper of refrigerator compartment, it is necessary to set them to the either of the following.

R	[How to set
Open	Open	Set $\mathcal R$ to $\mathcal B$ and then set $\mathcal E$ to $\mathcal B$.
Close	Open	Not available
Open	Close	Set R to C and then set C to C.
Close	Close	Set ₽ to £.

Release

- ●With the door of ice making compartment left open, simultaneously press and for about 3 seconds until a "beep" sound is heard. The screen returns to the temperature display.
- •This function is not automatically released.
- •Follow the procedure above to release this function. For the prevention of the compressor, avoid releasing it by plugging and unplugging the power cord.

(8) Error history display mode Error history can be observed in the error history display mode. Use this mode when the actual problem of the refrigerator is different from the error which was displayed at the service-call received. ① Setting for 3 seconds until a "beep" is heard and and "88" blinks. ●With the door left open, press and □ together for 3 seconds until a "beep" is heard. ② Display details ●Same as the error display and trouble locating. (Refer to 6.2(3)) ●When there is no recorded error, "—" will be displayed. When several errors have occurred, error will be displayed in the increasing numerical order, as in the error display and trouble locating. (Ex.) In case errors in the ice tray thermistor (\mathcal{E}/\mathcal{Q}), refrigerator thermistor (\mathcal{E}/\mathcal{Z}) and refrigerator fan motor (£31) have occurred: $E \rightarrow 10 \rightarrow 13 \rightarrow 31 \rightarrow E \rightarrow 10 \rightarrow 13 \rightarrow 31 \dots$ 3 Check points and resetting the error history ●Follow the treatment procedures shown in the self-check. ●After the treatment, press of for 3 seconds to reset the error history. "—" will be displayed when the data is reset successfully. (Ex.) When there is problem with the ice maker gear box. ●Perform the self-check again (Refer to 6.2) to confirm there are no dysfunctions. Release ●Open the door of the ice making compartment, and press and together

and unplugging the power cord.

for 3 seconds until a "beep" is heard.

•Function is automatically released in an hour.

Door Buzzer System:

Door buzzer has been installed so that one will not forget to close the door.

When the door of refrigerator compartment or ice making compartment is left open for a minute, the buzzer starts ringing and informs that the door needs to be closed.

•Follow the procedure above to release this function. For the prevention of the compressor, avoid releasing it by plugging

When door is left open for:	1 minute- 4 minutes	More than 5 minutes
Buzzer	Buzzer rings every 1 minute	Keeps ringing

The buzzer will stop ringing as soon as the door is closed.

The display will return to the normal temperature display.

However, this buzzer system does not work when the door is not widely open like when something is pinched between the door and refrigerator.

If the door is not closed completely, the temperature inside the refrigerator will rise and it will be a cause of spoiling the food inside.

When the buzzer does not stop even if all the doors are closed, abnormality may occur in door switch.

If the buzzer keeps ringing and annoying, it can be stopped by the following operations.

① Perform the ice making test operation.

(Note: If the test is conducted with water in the ice tray, water may fall into the ice storage bin because the tray is rolled over in the ice making operation.)

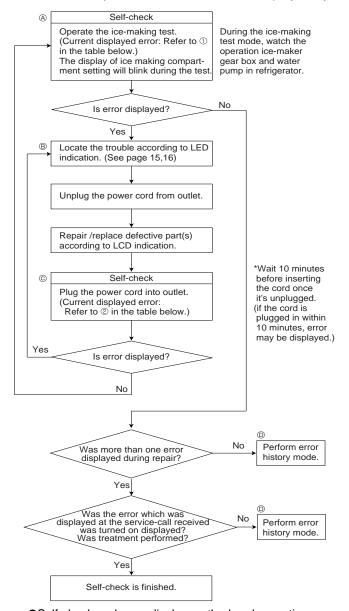
Buzzer sounds when a trouble is found in refrigerator fan motor or in machine chamber fan motor. The buzzer sounds every time the door is closed until the fan motor gets to operate correctly.

(Check the error code by following the steps in Specification of display in self-check result on page 14.)

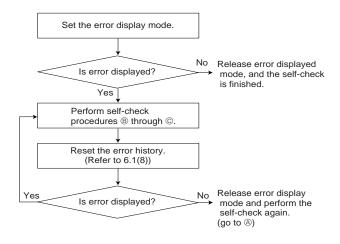
6-2 FLOWCHART OF SELF-CHECK MR-G50J-NZ

(1) Troubleshooting with self-check

This refrigerator has self-check feature to clarify and indicate where & what the trouble is. You can perform operation checks and identify malfunction of electric or electronic parts. Error history is recorded and can be displayed by the refrigerator.



© Error history mode (Refer to 6.1(8)) Problem may recover automatically. Perform the following if error is not displayed before treatment or the error which was displayed at the time power of the unit was turned on is not displayed.



Note1: Self-check cannot detect abnormalities in the following parts.

See page 19-31 for troubleshooting.

Door switch

Heater (Water pipe / Vegetable compartment heater, etc.)

Water pump motor

Note2: If any abnormality is found when switch is turned on, compressor

and fan motor are suspended for 10 minutes.

Note3: The alarm beeps when some abnormalities (motor-locked) have occurred at the refrigerator fan motor restarts its normal operation

Note4: If any abnormality occurs in compressor's inverter circuit,

the compressor and the refrigerator fan motor stop for 10 minutes (not only when plugging the power cord).

Self-check and error display method and operation

	Item	Operation method	Display or self-check operation	Display time	Others
Self-check	Olce making test operation All items except (*6) listed up on the table at page 17 will be checked.	Press the switch. for 5 seconds.	1. Conduct the automatic ice making test. (The display of ice making compartment setting is blinked) 2. When trouble is found, all error codes except £50-£55 are displayed. 3. When error is not found, nothing is displayed.	For 10 minutes after setting.	Self-check is not available during child lock, cooking timer, changing the rotati- onal speed of compressor, checking the temperature of thermistor, damper ope- ration and demonstration modes.
1	②Power input. All items except (*6) listed up on the table at page 17 will be checked.	Plug the power cord into outlet.	1.When trouble is found, all trouble except £50-£55 and displayed. 2.When error is not found, nothing is displayed.	For 10 minutes after power is supplied.	Self-check is not available during demonstration mode.
	③Error history	Refer to 6.2(3) Error history display mode.	1.When trouble is found, all trouble except \$5\$0-\$5\$ and displayed. 2.When error is not found, nothing is displayed.	For one hour after setting, or until mode is released.	Self-check is not available during child lock, cooking timer, changing the rotati- onal speed of compressor, checking the temperature of thermistor, damper ope- ration and demonstration modes.

●Release of self-check display mode

self-check finishes automatically. Error cord display is automatically released 10 minutes later.

(2) Timing in self-check

Trouble of Defrost heater : Self-check is conducted after defrosting.

(Make sure to confirm the display before unplugging the power cord because it is automatically reset once the power cord is pulled out.)

: Press the $\bigcirc^{\text{\tiny{MOUL}}}$ switch on the panel for 5 seconds. (Ice making test mode.) Trouble of Ice maker

Trouble of Fan motor

The setting of ice making compartment blinks on LCD during the test operation. Open the door and then closed it. When abnormality is found in fan motor, buzzer sound is heard every time the door

is closed.

Trouble of Inverter : Check the error when compressor starts up or is operating.

Trouble of Thermistor : Self-check is continuously working

(3) Error display and trouble locating

1. Display details

After conducting the self-check by referring to 6-2(1), error codes are displayed in the temperature display section. "ε" and two digit error code flashes alternately as shown in the right figure. When several errors occur, they are displayed alternately. However, the error whose code has a smaller number has priority to be displayed first. (Ex.) In case the errors of ice tray thermistor (*EIB*), refrigerator thermistor (*EIB*) and refrigerator

fan motor (£31) are happening simultaneously;

$$E \rightarrow 10 \rightarrow 13 \rightarrow 31 \rightarrow E \rightarrow 10 \rightarrow 13 \rightarrow 31 \dots$$

* For 2 minutes in self-check, a high-tone sound is heard due to the operation check of damper.



2. Check point and treatment

(Ex.) When ice maker gear box is defective.

					Detecting method			box is defective.
Displa	ay	Error	code	Trouble	Detecting method (*3)	Check point	Treatment	Control
Tes	sting	(*	1)		Ice maker is	s under testing		
		ε	01	(*5) Communication error of operation panel	When the following communication errors occur between control board and operation P.C. board: They transmit and receive data that has nothing to do with settings. They cannot transmit and receive data each other for about two seconds.	Connector CN8K, CN7S on control board 4-pin relay connector (hinge) 4-pin connector on operation P.C. board Trouble of control board and operation P.C. board P.C. board	Repair the contact failure. Replace	Keep the same operation as the one before the communication error has occurred.
		ε	oε	Communication error of inverter	When abnormality is found in		Replace the control board.	Compressor OFF.
		ε	03	Trouble of model judge- ment	When the model of control board is different from the one of operation P.C.	Check the model name of control board Check the operation p.c. board.	Replace Replace	Keep operating the unit, and conduct error code indication only.
		ε	10	Trouble of ice making tray thermistor	board. When there is a short or open circuit in the ice making tray thermistor.	Connector CN7S on control board, Ice gear box 6-pin relay connector, 8-pin relay connector Check the resistance of thermistor.	Repair the contact failure. Replace	When the compartment door has been closed for 3 hours and when freezer compartment thermistor is -10°C or less, ice-detecting operation starts.
Self-check	CCD	ε	!!	Trouble of freezer compartment thermistor	When there is a short or open circuit in the freezer compartment thermistor.	Connector CN7S on control board. 6-pin relay connector Check the resistance of thermistor.	Repair the contact failure. Replace	After 10 minutes off, the compressor repeats 30-minute ON and 20-minute OFF.
Self-	→	ε	18	Trouble of defrost thermistor	When there is a short or open circuit in the defrost thermistor.	Connector CN7S on control board. 2-pin relay connector Check the resistance of thermistor.	Repair the contact failure. Replace	The defrost heater won't be turned ON.
		ε	13	Trouble of refrigerator thermistor	When there is a short or open circuit in the refrigerator compartment thermistor.	Connector CN7S on control board, 4-pin relay connector Check the resistance of thermistor.	Repair the contact failure.	Synchronize the open/close status of R damper with that of C damper.
		ε	14	Trouble of chilled compartment thermistor	When there is a short or open circuit in the chilled compartment thermistor.	Connector CN7S, on control board, 6-pin relay connector	Repair the contact failure.	Synchronize the open/close status of C damper with that of R damper.
		ε	15	Trouble of versa compartment thermistor	When there is a short or open circuit in the versa compartment thermistor.	Check the resistance of thermistor. Connector CN7S on control board, 6-pin relay connector Check the resistance of thermistor.	Repair the contact failure. Replace	When S-compartment is used as "freezer": S-damper is open when compressor is turned on, S-damper is closed when compressor is turned off. When S-compartment is used other than "freezer": S-damper remains open for the first 3 minutes and then closed for the rest of time.
		ε	18	Trouble of veg- etable compart- ment thermistor	When there is a short or open circuit in the vegetable compartment thermistor.	Connector CN7S on control board, 4-pin relay connector Check the resistance of thermistor.	Repair the contact failure.	S-compartment: Versa(select) compartment. •When R-damper is open, V-heater is turned on. •When R-damper is closed, V-heater is turned off.

Di	splay	Error	code	Trouble	Detecting method (*3)	Check point	Treatment	Control
		ε	n	Trouble of ice making compartment thermistor	When there is a short or open circuit in the ice making compartment thermistor.	Connector CN7S on control board, 6-pin, 9-pin relay connector Check the resistance of thermistor.	Repair the contact failure. Replace	When ice making compartment is used as "refrigerator", synchronize I-damper with R-damper. When ice making compartment is used as "ice making", synchronize I-damper with F-damper.
		ε	18	Trouble of out- side air ther- mistor	When there is a short or open circuit in the outside air thermistor.		Replace the operation P.C. board.	Compressor is activated at "Speed-level 2."
		ε	30	Trouble of defrost heater (*6)	When defrosting is not finished in 2 hours.	Connector CN2A on control board Defrost heater plug and receptacle, 1-pin relay connector Thermal fuse 4-pin, 8-pin relay connector Check the resistance of defrost heater. Check the continuity of thermal fuse.	Repair the contact failure. Replace Replace	The defrost heater is stopped and if the next defrosting finishes in 2 hours, the error code will disappear .
		ε	31	Trouble of refrigerator fan motor	When motor doesn't rotate even though power is on. When the waveform, which indicates the rotation times of motor, can-	Connector CN4D on control board, Refrigerator fan motor 6-pin relay connector Check refrigerator fan motor operation.	Repair the contact failure.	*3 minutes later, the refrigerator fan motor is reactivated to be checked. *Until the fan motor gets to operate correctly, the buzzer sounds
		ε	32	Trouble of machine chamber fan motor	When motor doesn't rotate even though power is on. When the waveform, which indicates the rotation times of motor, can-	Connector CN4D on control board, 4-pin connector, 4-pin relay connector Check machine chamber fan motor operation.	Repair the contact failure.	every time the door is closed. *3 minutes later, the machine chamber fan motor is reactivated to be checked. *Until the fan motor gets to operate correctly, the buzzer sounds
		ε	33	Trouble of ice maker gear box	not be detected. When the gear box operation is not finished in 30 seconds.	1. Connector CN8K on control board, lee gear box 6-pin relay connector, 8-pin relay connector 2. Ice gear box frozen point 3. Check the trouble of the ice gear box with the	Repair the contact failure. Replace Replace	every time the door is closed. 100 minutes later, the gear box is reactivated to be checked again.
Self-check	ГСБ	ε	34	Clogging of refrigerant pipe or trouble related to compressor	(T0: Defrost thermistor temperature at power input, T1: Defrost thermistor temperature when 15 minutes have passed from the power input) •When the difference between T0 and T1 is T0≤T1. (*5)	ice making test operation. Check the compressor and the pipe.		When cooling operation returns to normal condition, the display of error code disappears.
Š		ε	47	Trouble of elec- tromagnetic three-way valve	When defrost thermistor reads -10°C or above in five minutes after the compressor's startup.(*5)	Connector CN9D on control board 5-pin connector in machine chamber	Repair the contact failure.	Check the operation of electro- magnetic three-way valve and then open the valve.
		ε	50	Trouble of inverter circuit (*6)	•When there is any trouble in the circuit which detects cur- rent of compressor.			
		ε	51	Trouble of bus- bar voltage (*6)	•When the range of bus-bar voltage is not approx. DC 260-390V.			
		ε	52	Trouble of inverter software reset function	•When the inverter driving software malfunctions.	Refer to "Compressor does not operate" at page 21.		The compressor is suspended and reactivated 10 minutes later.
		ε	53	Trouble of startup , synchronization or overcurrent detection (*6)	When there is no current at compressor startup. When phase current exceeds 5.54 at compressor startup. When phase current exceeds 3.34 during compressor operation. When current of 5.34 or more runs into the bus-bar of control board.			
		ε	SY	Trouble of power supply voltage (*6)	When bus-bar voltage (full wave voltage) is DC 390V or above in power input.	Different voltage of power supply outlet Trouble of relay in the circuit on the control board	Replace the control board.	Refrigerator compartment room light OFF Heaters. OFF
		ε	55	Trouble of con- trol board (*6) (EEPROM related trouble)	EEPROM (IC11M) accumulates data necessary for control. When the data are not input accurately. When microcomputer cannot read the data.		Replace the control board.	When abnormality occurs in power input, the compressor is suspended for 10 minutes. When abnormality occurs in normal operation, the compressor keeps operating.
		ε	58	Defective wiring continuity or trouble of control board	The errors 50 to 53 keep occurring over one and a half hour. (the situation, which compressor cannot be operated, continues.) Overcurrent detection error occurred before the compressor is activated.	Refer to "Compressor does not operate" at page.22.	ssor does not operate" at page.22.	
						or after ice making test operation		

^{*1 :} The setting of ice making compartment will be displayed and blinks during or after ice making test operation.
*2 : This operation is called the recovery operation:

If the damper has not operated ever once during the compressor operation, make the damper operate when the compressor stops.

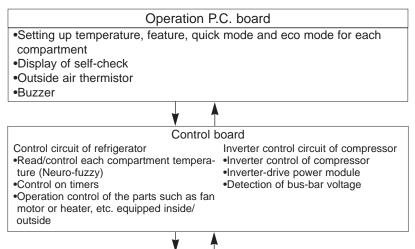
^{*3:} When the resistance is ∞Ω, the circuit is deemed open-circuitted.
When the resistance is oΩ, the circuit is deemed short-circuitted.
*4: Once ξθ¹ is detected, other errors would be ignored and not displayed on the panel.

 ^{4.} Once Cor is detected, other errors would be ignored and not displayed on the panel.
 4. Characteristic value may change in order to improve the product.
 4. The error codes ε50 to ε55 are not displayed even if those abnormalities occur at power input.
 Therefore, be sure to perform ice making test operation in order to check if any abnormality indicated by these error codes occurs. (See page 14.)

 4. If those errors still continue for 1minute after the restart, ε56 will be displayed again.

6-3 BLOCK DIAGRAM OF PRINTED CIRCUIT BOARD

MR-G50J-NZ



Parts outside/inside of Refrigerator

For 325V system

Compressor

For 230V system

- Defrost heater
- •Vegetable compartment heater
- 1&2 Rotational heater board
- Divider heater (I/S)
- Water pipe heater
- •Refrigerator compartment room light
- •Ice making tray heater

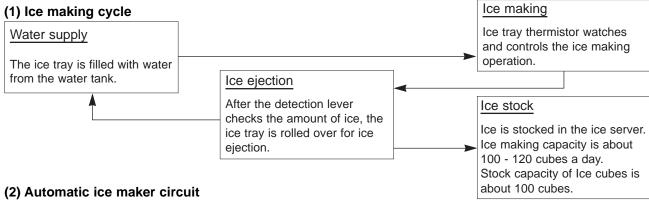
For 12V DC system

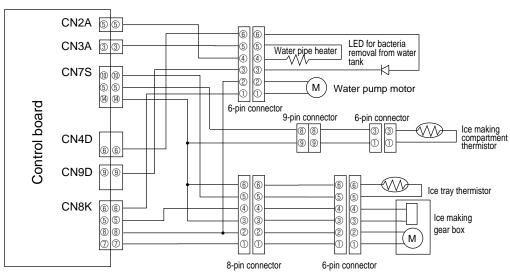
- Refrigerator fan motor
- •Machine chamber fan motor
- Motor damper
- •Ice maker gear box •Three-way valve
- •LED for vegetable compart ment.
- •LED for bacteria removal from water tank

For 5V DC system

- Freezer compartment thermistor
- •Refrigerator compartment thermistor
- Defrost thermistor
- •Slide chilled compartment thermistor •Door switch (For refrigerator compartment & ice compartment)
- ice tray thermistor
- •Ice making compartment thermistor
- Vegetable compartment thermistor
- Position-specifying switch in ice maker gear box
- •Versa compartment thermistor

6-4 AUTO ICE MAKER MR-G50J-NZ





(3) Operation by ice making test Ice stock detective Completion The ice tray is Water pump motor is operates. lever detects the rolled over and the When abnormality Press the switch amount of ice. system is reset. occurs, the error code for 5 seconds or Detective lever once Remove the lid of The ice tray rolls more. (See "• Self check and error display method and operais displayed on the come down to detection the water tank then over once to drop point then return to the original position. check the sounds panel. the ice, then return of water running. Inspect the abnormal to the original position. points by referring to tion, ① Ice making test operation" at page 14.) page 15, 16. Detection lever

Ice making test completes about 20 seconds later.

(Upper freezer compartment) (Lower-left part of refrigerator compartment) [Check point of automatic ice maker operation]

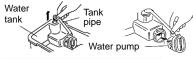
*Never touch the automatic ice maker while it is operating.

After the operational test, a popping sound is heard several times because the operation of three-way valve is checked automatically. During the operation, do not insert a hand into the automatic ice maker.

(4) Maintenance for water pump and water pipe

Water pump & Light-type bacteria removing filter 1. Pull out the pipe. 2. Turn the tank

pump to detach. Water



Water pipe · Tank holder

1. Pull out water supply pipe. Wipe the tank holder with clean cloth.

Do not let water flow into the tank holder.

3. Pull out the tank pipe, turn the cap to remove, and then wash the propeller with water.

•The propeller is made of the magnet. Wash it well with water so that no alien substance remains on it.

Tank holder

Cap Cover Decon Light-type bacteria removing filter

4. Remove the light-type bacteria removing filter and wash it in water.

Normally the filter need not be replaced. However, replace it

Check here.

in the following condition:

•When the filter is clogged by passing something other than water through the filter.

•When the filter is broken.
In such a case, contact the dealer that you purchased this refrigerator.

5. Put the parts back in the reverse order of disassembly.

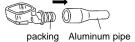
2. Separate pieces and wash with water. 3. Reverse steps to replace the pipe.

aluminum

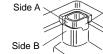
replace it.

pipe to

Twist the



Tank pipe Propeller



Water pipe Replace the water pipe. Be sure that sides A and B fit flush to

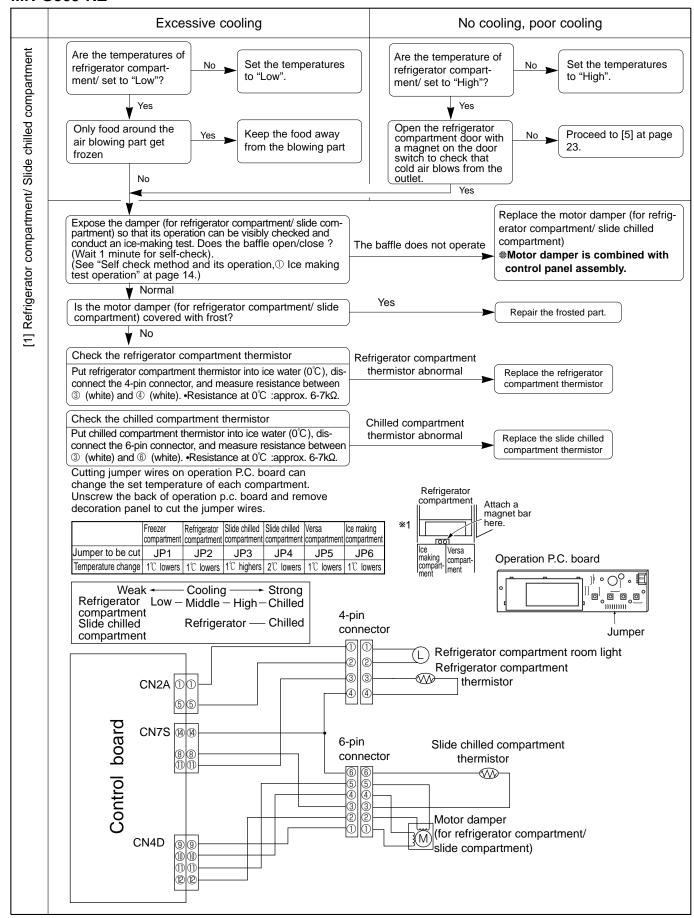
supply

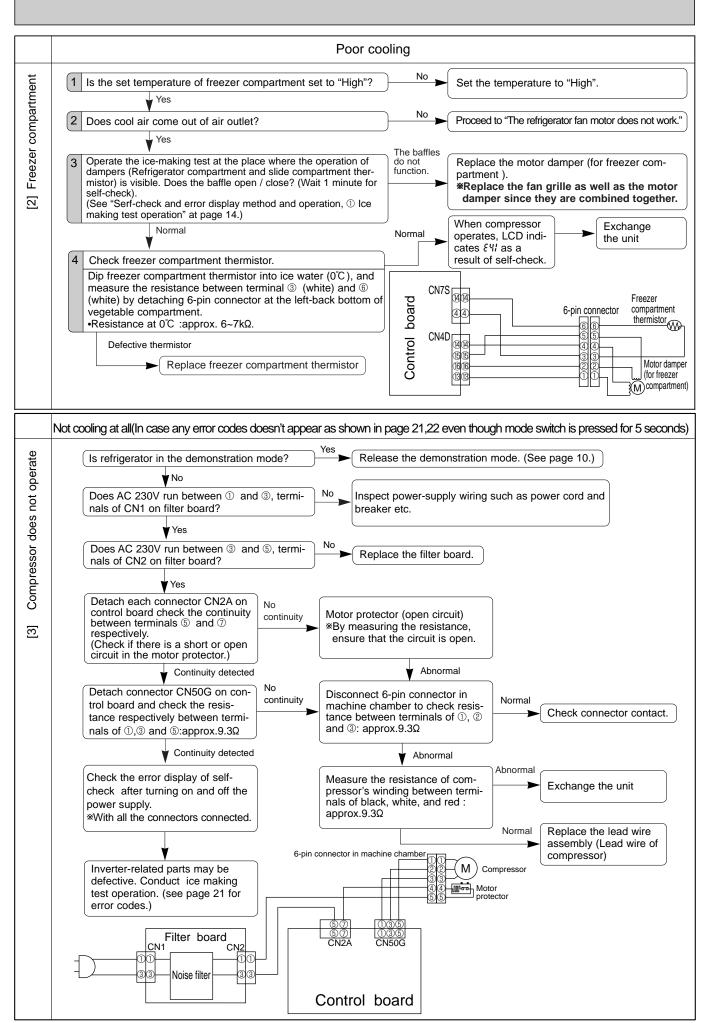
pipe

(5) Tr	roubles	hooting	for automatic ice-maker	Side B	and B fit flush to each other.					
			The ice-maker gear box may be defective, cooling may I	be poor or ice cubes may be full	in the server.					
	Water or ice is on the ice tray	ce does not out from ay	1.Check inside of the ice server.	cubes are not stored flatly and the amount is detected as full. Food inside the ice server	→Inspection					
	Water or ice is on the ice tray		e doe out fr	e doe out fr	Measure the resistance of ice tray thermistor circuit.	•Open circuit (∞Ω) or short circuit (0Ω)	→Replace the ice tray thermistor.			
	Wa	The ice come ou	Check if the temperature of the freezer compartment is cool enough. (It takes longer to make ice during summer time or if the door is frequently opened.)	•Not enough	→Poor cooling					
ļ iģ			The water saucer may be defective, or the ice tray may	get cracked.						
Trouble with ice-making	tray	Water in water saucer	Check the water pipe between the refrigerator compartment and freezer compartment for dirt, and foreign objects.	Clogging Freezing (For freezing, check the pipe heater resistance.	→Clean the water pipe.→Defrost					
\ <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>	, e		5.Check the condition of ice tray.	Broken or cracked	→Replace the tray.					
elqno	ice in the ice tray	auce		•Not placed properly	→Reinstall it properly.					
T		in the ice No waterdrops in water saucer	One of the pipe. 6.Disassemble the water pump and check the inside of the pipe.	•Dirt or foreign objects	→Repair and explain to the user for proper usage.					
	wate		rdrops in	No water or	ni sc	ps in	ps in	7.Tank pipe is clogged , has a hole or is not properly installed.	Clogging, disconnectingHole or crack	→Clean / Reinstall it properly.→Change the tank pipe.
	ž				8.Check the motor coil resistance.	•Open or short circuit	→Check the water pump.			
		No wate	9.Check if there are any dirt or foreign object which are difficult to remove in the water tank. Also, check if there is any crack or deformation on the tank.	Crack or deformation	→Change the water tank.					
			10.Check the water pipe for dirt, and foreign	 Clogging, disconnecting 	→Clean / Reinstall it					
Mot	er in the	tank	objects. Also, check the water pipe position and	Hole or crack	properly.					
hold		laiik	connection.		→Replace the pipe.					
Tiola	noidei		11.Check the water pipe (between F.compartment and R.compartment) for clogging.	•Clogging	→Clean / Remove the dirt.					
	Chained ice, Water leaking from		12.Check the water pump operation by the ice-making test.13.Water spill at the installation of water tank or more contents.	•Water filling time is longer than 9 seconds. ore water over the full water leads to the full water l	→Replace the control board. level may cause to from					
1	ce serve	,	chained ice.							
11101	CG 30176	ı	14.Measure the water pump coil resistance.	•Open or short circuit	Change the water pump motor.					

6-5 FLOWCHART OF TROUBLE CRITERION

MR-G50J-NZ



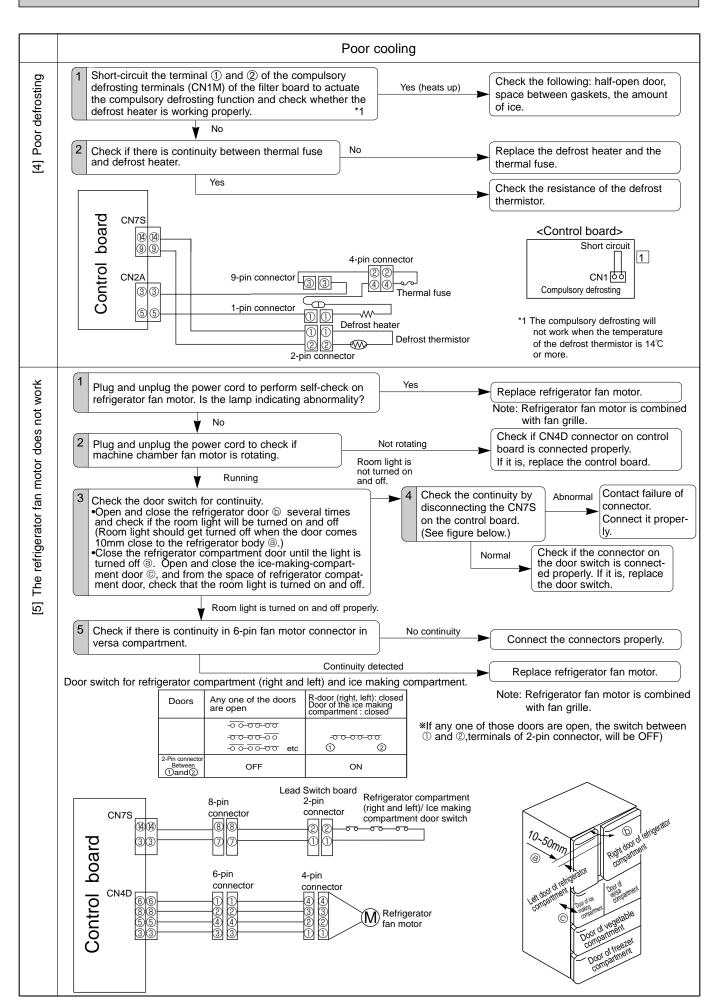


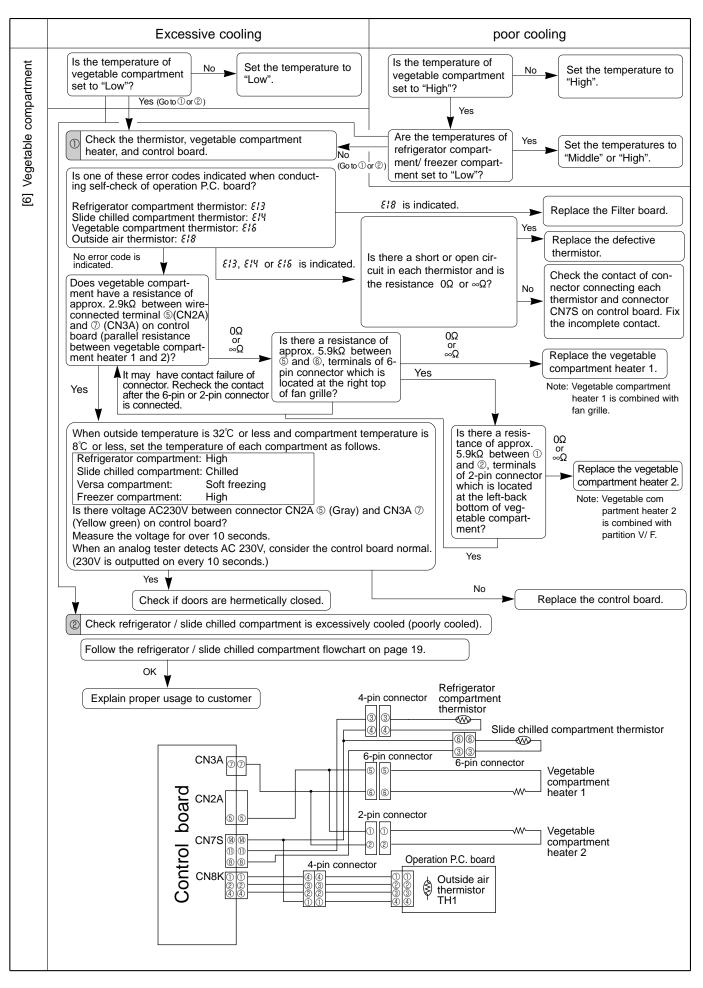
Inverter-related indication "Compressor does not operate"

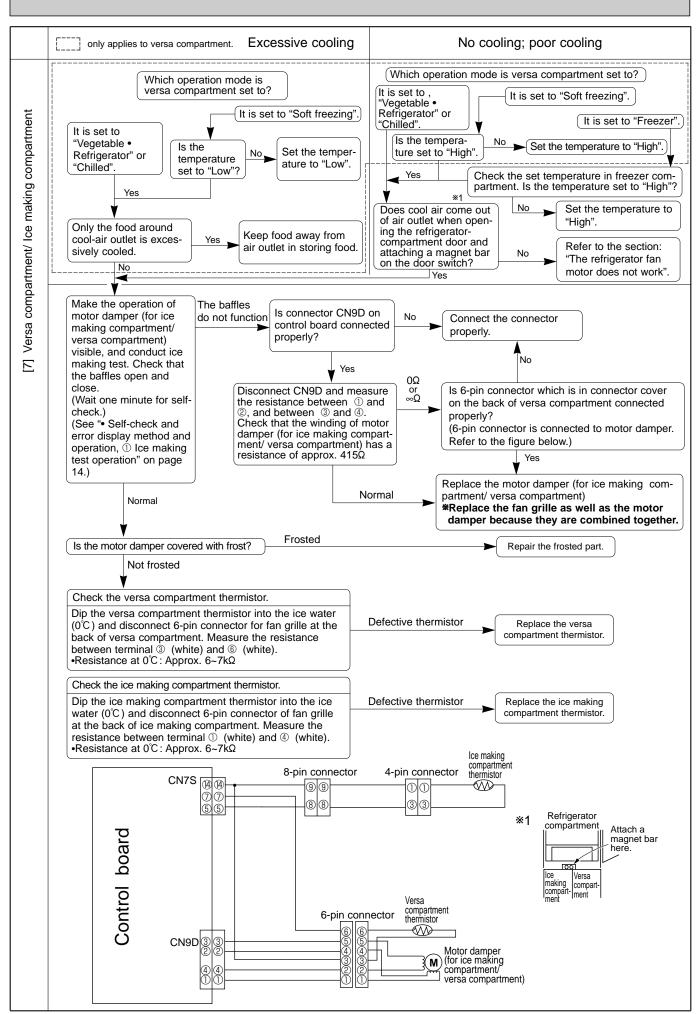
	ı		1	
Error code	Abnormality	Possible cause	Symptom	Treatment
ES0	Trouble of inverter circuit	•When there is any trouble in the circuit which detects phase current of com- pressor.	Compressor does not rotate.	Replace the control board.
ESI	Bus-bar voltage is abnormal.	Power supply voltage is abnormal. Defective reactor on the N/F board	Compressor does not rotate.	Start 160V or more Measure the voltage of power supply to obtain the rated voltage, 180-280V. Arrange power supply to make the voltage within 180-280V and conduct the following checks. Does AC230V run between CN51 terminals ① and ③, on the control board? (See page 32.) Check the connection between filter board and control board. Check the connection between filter board and control board. Pyes Replace the control board. Replace the filter board.
ESE	Trouble of inverter software reset function	•When the inverter driving software malfunctions.	Compressor does not rotate.	Unplug the power cord and then plug it in 10 minutes. Check the error code by performing the ice making test operation. F52 display again. Replace the control board. Explanation to customer
E53	Abnormal start-up Abnormal synchronization Trouble of overcurrent detection	Compressor motor gets locked. Defective circuit on control board Defective contact of CN50G on control board Defective contact of machine chamber 6-pin connector	Compressor does not rotate.	Start Disconnect 6-pin connector in machine chamber to check resistance between each terminal of ①, ② and ③: Are they approx. 9.3Ω (20°C)? Yes *Replace lead wire assembly C. *Is compressor energized at startup? Ves Ve

Inverter-related indication "Compressor does not operate"

Error code	Abnormality	Possible cause	Symptom	Treatment
656	Defective wiring continuity Trouble of the control board	Defective connection of connectors related to compressor (board-side,relay, comp-side) Defective wiring continuity of the compressor Trouble of control board Trouble of compressor	(1)Compres sor can not be activeted for more than 1.5 hours (2)Overcurr ent detection error occurred before the compresssor	1.Locate the trouble and deside the treatment •Decide the treatment by checking the followings. (1) Defective connector connections. (board-side,relay,comp-side) (2) Resistance of compressor's winding 2.Flowchart of troubleshooting Check Treatment Start Connector CN50G on the control board is properly connected? Connect properly.
			actived.	6-pin relay connector in machine chamber is properly connected?
	Compressor Passure resistance) the connection Lead wires connecte to compressor	6-pin relay connector in management of the relay connection relay connecti	Control board	The connector of compressor is properly connected? Yes Wes The connect 6-pin relay connector in machine chamber and measure the resistance between each terminal of ①,② and ③ (Pont 1). Approx. 9.3Q(At 20°C)? Replace the lead wire connected to compressor. Replace the control board. Replace it only when error display keeps bilinking even though all the above mentioned connectors are properly connected. 3. Recheck after treatment • After any treatment is tried, unplug and plug power cord again to check if the compressor operates properly. •If the compressor can operate properly for more than 1 minute after power cord is plugged again, it's presumed that the couse of trouble is eliminated. *If the couse of trouble cannot be eliminated.**E5&* won't be displayed again 1 minute later after the power cord is plugged again. If the control board has been replaced, £5& won't be displayed even though the couse of trouble is still not eliminated. In such a case, perform the ice making test operation to check what the error is. At the same time, also confirm that the compressor is operating for more than 3 minutes and each compartment is getting cooled.







6-6 TROUBLE CRITERION OF MAIN PARTS MR-G50J-NZ

Components/ Part Name		Cho	eck Met	hod a	nd C	riterion				Parts Mounted Position
Compressor	Black	Mo	del			ET	ΓΙ100Ε	E13DAH		In the machine chamber at the
	/ & \		ted input		W	45/159	9 (162	:0/4800rp	om)	rear side of the frame.
			rting cur		Α		2.			
	White F	υ / —	nning cu	rrent	Α	0.03/2.	19 (16	20/4800	rpm)	
		Red			No	ormal		ormal ulty)		
	Measure the resi with a tester.	(E	Winding Black-Wh White-Re Red-Blac	nite) ed)	9. (2	.3 Ω :0℃)	shor	n (∞ Ω) or t circuit 0 Ω)		
Motor protector	Mode	l				MM3-7	1CCV			In the machine chamber at the
protoctor	Conne	ected Open	Energiz	e it at		00 ±50 °C . 25°C for			the longest.	rear side of the frame.
	point	Close	Energize it at 17.0A, 25°C for 16 seconds at the longest. se 61±8°C or less							
	Measure the re		a tester.	(Ambi	ient te				perature)	
	Con	tact point								
	1 1 2	2			Norn	nal	А	bnormal	(faulty)	
) \ '	i		Le	ess tha	an 1 Ω	0	pen circu	uit (∞Ω)	
			L							
Refrigerator					U	DQM002	B3			In the fan grille
fan motor		Model			DC	DC brushless			of the freezer	
		Number of p	pole			10				compartment.
		Diameter				Mixed flo		•	_	
	Measure the re	sistance with	a tester.	(Ambi	ent te	mperatu	re : R			
					Norm	nal			ormal ulty)	
			Betw			9 (GND a out 12 kΩ	ind IC	Between	① and ④ cuit (∞Ω)	
			Bet		and Powe	④ (Powe ι r): ∞Ω	r and	Between :short cire	$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	
	02)③④ : Pin No.			4 3 2 1 1	Power				
Machine	N.	lodel				M004B3				In the machine
chamber fan motor		lumber of pole	Δ			rushless 10				chamber at the rear side of the
	D	iameter			140 (Extra far				frame.
	Measure the res	peration metho				ressor op			oratura)	
	ivicasure trie les	JUNE WILL O	u 163161.	(\(\alpha\))	Nor	-	σ. Ν		al (faulty)	
		(4) IC Por (3) Powe (2) FG (1) GND	wer r Bet		and	$\c 4$ (GND soout 9 k $\c 2$		Betweer	n ① and ④ ircuit (∞Ω)	
	①②③④ : Pin No.		Ве			l	er and		0 3 and 0	

Components/ Part Name	Check Metl	nod and Criterion		Parts Mounted Position
Water pump motor	Measure the resistance with a tester. (A	Under the water tank holder in refrigerator com-		
		Normal	Abnormal (faulty)	partment.
		16 Ω (Approx.)	Open $(\infty\Omega)$ or short circuit (0Ω)	
Motor damper for refrigerator	Measure the winding resistance.			In the control panel for refrigerator
compartment/ slide chilled compartment		Normal	Abnormal (faulty)	compartment. Connector is at
	Winding (Blue-White) Red-Yellow	415 Ω (Approx.)	Open ($\infty\Omega$) or short circuit (0Ω)	the left-back bot- tom of refrigera- tor compartment.
		Red		
		Yellow ———————————————————————————————————	ue White	
Motor damper	Measure the winding resistance.	In the fan grille		
for ice making compartment/ versa compart-		Normal	Abnormal (faulty)	for freezer compartment. Connector is at
ment	Winding (Blue-White Red-Yellow)	415Ω (Approx.)	Open $(\infty\Omega)$ or short circuit (0Ω)	the back of versa compartment.
		Red		
		Yellow		
		E	 Blue White	
Motor damper for freezer com-	Measure the winding resistance.			In the fan grille for freezer
partment		Normal	Abnormal (faulty)	compartment. Connector is at the left-back bot-
	Winding (Blue-White Red-Yellow)	415 Ω (Approx.)	Open ($\infty\Omega$) or short circuit (0 Ω)	tom of vegetable compartment.
		Red ——		
		Tellow	Blue White	

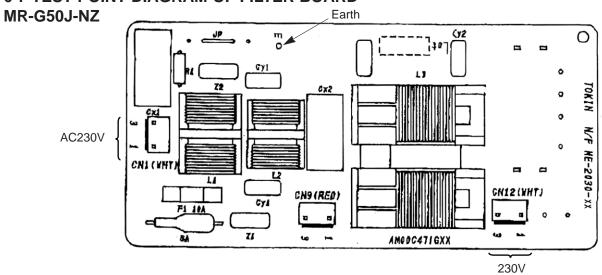
Components/ Part Name	Check Method and Criterion	Parts Mounted Position
Defrost heater	Rated input W 163	At the drip tray
	Operation method The heater is energized while defrosting. (Defrosting is finished when the evaporator is 14± 1.5°C or more	under the evaporator of the
	Measure the resistance with a tester. (Ambient temperature : Room temperature)	freezer compartment.
	Normal Abnormal (faulty)	
	$\begin{array}{c c} 325\Omega \\ \text{(Approx.)} \end{array} \qquad \text{Open circuit } (\infty\Omega \text{)}$	
Vegetable compartment heater 1	Measure the resistance with a tester. (Ambient temperature : Room temperature)	In the fan grille at the back of vegetable
	Normal Abnormal (faulty)	compartment.
	5.9kΩ (Approx.) Open circuit (∞ Ω)	
	Operation method The heater is turned on when vegetable compartment thermistor has reached a lower temperature than the set temperature for vegetable compartment.	
Vegetable compartment heater 2	Measure the resistance with a tester. (Ambient temperature : Room temperature)	In partition V/F.
	Normal Abnormal (faulty)	
	5.9kΩ (Approx.) Open circuit (∞Ω)	
	Operation method The heater is turned on when vegetable compartment thermistor has reached a lower temperature than the set temperature for vegetable compartment.	
Water pipe heater	Measure the resistance with a tester. (Ambient temperature : Room temperature)	Under the water tank holder.
noutei		tariit rioladi.
	Normal Abnormal (faulty)	
	6.6kΩ (Approx.) Open circuit (∞Ω)	
	Operation method When ice-making thermistor has reached approx. 10°C or below, the heater is turned on with energizing rate adjusted by the set temperature of slide compartment and freezer compartment.	

Components/ Part Name	Check Method and Criterion	Parts Mounted Position
Divider heater (I/S)	Measure the resistance with a tester. (Ambient temperature : Room temperature)	In partition I/S.
	Normal Abnormal (faulty)	
	9.6k Ω (Approx.) Open circuit ($\infty\Omega$)	
	While compressor is operating, the heater is turned on. When compressor stops, the heater is suspended for the first 20 minutes and then reactivated.	
Rotational heater board	Measure the resistance with a tester. (Ambient temperature : Room temperature)	In the rotational heater board of refrigerator compartment.
	Normal Abnormal (faulty)	
	6.6kΩ (Approx.) Open circuit (∞Ω)	
	Operation method While compressor is operating, the heater is turned on. When compressor stops, the heater is suspended for the first 20 minutes and then reactivated.	
Ice making tray heater	Measure the resistance with a tester. (Ambient temperature : Room temperature)	Lower part of ice tray
	Normal Abnormal (faulty)	
	4.8kΩ (Approx.) Open circuit (∞Ω)	
	Operation method During CRYSTAL ICE mode (The heater is turned on 10 minutes after water is supplied, until 5~6 hours.)	

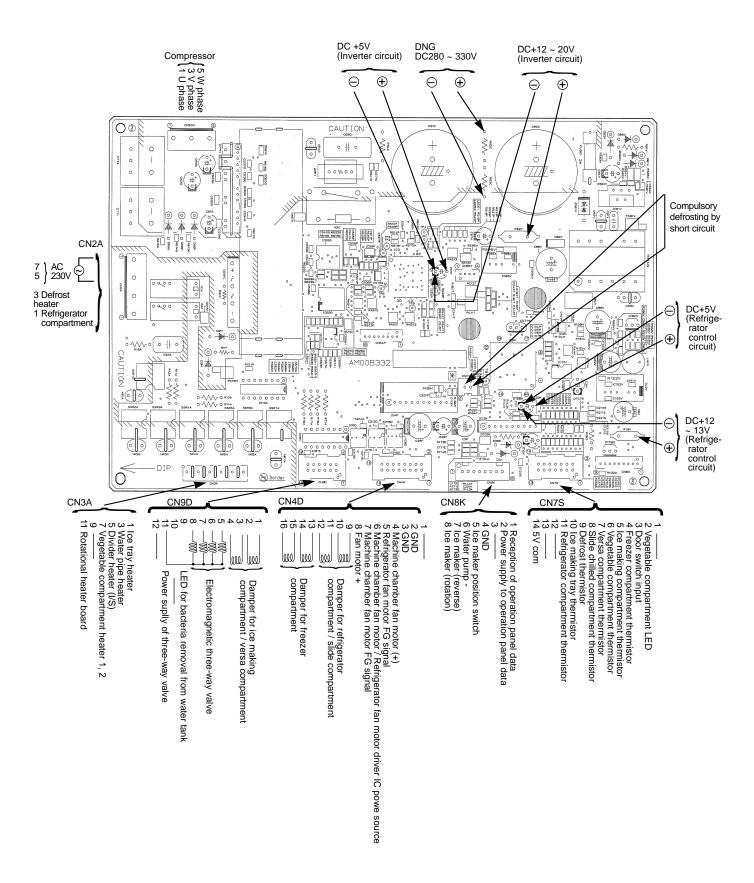
Components/ Part Name	Check Method	and Criterion	Parts Mounted Position
Thermistor	Measure the resistance with a tester accor (Thermistor resistance values against tempton of the ambient of the	temperature from -50°C to +50°C Thermistor Check Procedure •Thermistor resistance value will vary with the change of temperature. •Take the temperature around the	Vegetable compartment thermistor and Freezer
Three-way valve	[cor	ne valve is operating normally. The sound duct. eration right after this.	In the machine chamber at the rear side of the frame.

Components/ Part Name		Check Method and Criterion	Parts Mounted Position
Vegetable compartment LED (12V DC)	Normal condition	•The pointer of the tester equipped with a diode range shakes when measuring the resistance between 4-pin connector No.3(-) and No.4(+). •Use a tester equipped with a diode range (————————————————————————————————————	In the fan grille.
	Timing in making contact	Electricity is supllied all the time.	
	Abnormal condition	•The pointer of the tester equipped with a diode range does not shake when measuring the resistance between 4-pin connector No.3(-) and No.4(+). •Make sure that the pointer of the tester does not shake even if the polarities are reversed. •Resistance: Short-circuited (0Ω)	
	LED shown in the		
	Note: LED cannot I		
	LED	Use a tester equipped with a diode range (————————————————————————————————————	
LED for bacteria removal from water tank (12V DC)	Timing in making contact	After water is supplied to the ice tray. After the ice level sensor lever detects that ice storage becomes full. While the door is kept open for maximum of 5 minutes.	On the external surface of the tank holder.
	Abnormal condition	When the door is opened, LED goes out within 5 minutes. *Make sure if the connector is securely connected.	
	LED	Note: LED cannot be replaced individually because it is embedded in the tank holder.	

6-7 TEST POINT DIAGRAM OF FILTER BOARD



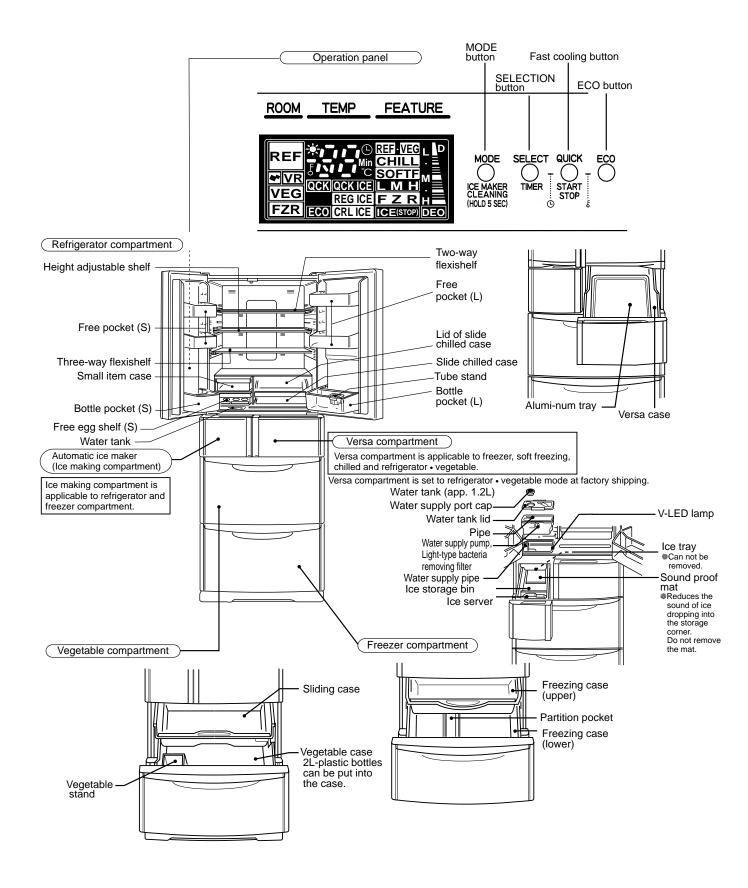
6-8 TEST POINT DIAGRAM OF CONTROL BOARD MR-G50J-NZ



7

NAMES OF THE PARTS

MR-G50J-NZ



DISASSEMBLY INSTRUCTIONS

MR-G50J-NZ

Plug out before work!!

Check the automatic ice-maker pressing ice making stop switch.

In assembling & disassembling parts seven kinds of screws and rivets are used. Do not mistake to use them.













PHOTOS



5X16 Stainless steel

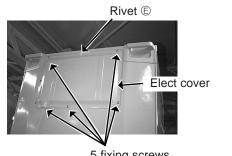
4X12

4X12 (Black)

4X16 (White) Stainless steel With metal washer With plastic washer

Specified screw

Photo 1



5 fixing screws

1. Elect cover → Control board

(1)Remove 5 screws fixing the elect cover and the rivet © on the upper rear side of the refrigerator. (See photo 1)

OPERATING PROCEDURE

Control board

(2) Disconnect the connector to remove the control board.

Caution on assembly

Firmly connect the lead wires and the connector. Ensure the wires are not pinched.

- 2. Parts inside the refrigerator compartment: Vertical partition
 - → Right rail of the slide compartment → Left rail of the slide compartment → Room light cover → Control panel (Upper/ Lower), Duct R (Upper/ Lower)
- (1)Remove the three way flexishelf, slide chilled case, and height adjustable shelf, two way flexishelf from the refrigerator compartment.

Vertical partition

- ①Remove the small item case and the slide chilled case.
- @Pull out the ceiling by unhooking the front catches on both sides.
- 3 Remove the slide chilled case lid.
- 4 Remove the vertical partition.

Ceiling of slide chilled compartment



Right rail of the slide compartment

(2) Slide the right rail out toward you. (See photo 2)

Left rail of the slide compartment

(3)Remove screw (3) (one screws), and slide the left rail out toward you. (See photo 3)

Room light cover

- ①Push up the lower catch, and pull the room light cover toward
- ②Detach two upper catches to take out the cover.

(See photo 4)

Photo 2

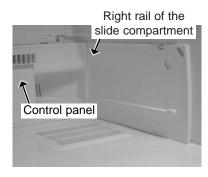


Photo 3

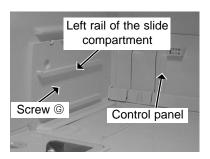
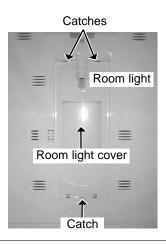


Photo 4



OPERATING PROCEDURE

Control panel (upper/ lower) Duct R (upper/ lower)

- (4)Remove rivet ©, and pull out the mirror hinge on the lower left of the control panel to remove the connector. (See photo 5)
- (5)Remove rivet ⊕ (two rivets) in the upper left and right side, screw ⊕ (two screws) in the lower left and right side, and rivet ⊕ (two rivets) in the lower. left and right side.

 Detach catches (seven places).

(See photo 5)

- (6) Detach catches (six places) on control panel (upper/ lower) and then duct R (upper/ lower).
- * Control panel can be divided into the upper and lower part by detaching catches (three places) on control panel (upper/ lower)

Control panel assembly

(The assembly consists of the following: Control panel [upper/lower], motor damper for refrigerator compartment / slide chilled compartment, refrigerator compartment thermistor, slide chilled compartment thermistor, room light socket, refrigerator compartment room light, and duct R [upper/lower]).

Caution on assembly

To prevent poor contact of connectors, connect them properly. Fix the control panel by inserting the lower catches (two places) into the floor of refrigerator compartment.

- Parts inside the ice making compartment, versa compartment, vegetable compartment, and freezer compartment →
 Partition I/ S → Partition I/ S/ V → Cover (IM) → Automatic
 Ice maker assembly → Cover (lower) → Partition V/ F →
 Connector cover (right/ left) → Fan grille → Defrost heater,
 Drip tray, DEF thermistor
- (1)Remove interior parts out of ice making compartment, versa compartment, vegetable compartment, and freezer compartment.
- (2)To detach them, pull out the doors of ice making compartment, versa compartment, vegetable compartment, and freezer compartment.

Partition I/S

(3)Remove rivet (a) (one rivet), partition cover, and a connector. Remove screw (a) (two screws) at the front side of refrigerator and four rollers to pull out the partition. (See photo 6)

Caution on assembly

Push up the lead wires so that they will not rub partition I/S.

Partition I/S/V

(4)Remove screw

(two screws) at the front of refrigerator.

Remove screw

(one screw each) and screw

(one screw each) at the right and left side of inner wall.

Then lift up the partition.

(See photo 7)

Cover (IM)

(5)Remove 2 rivets © and 3 catches in order to detach the cover. (See photo 8)

Automatic ice maker assembly

(6)Pressing a catch upward, and pull Automatic Ice maker assembly to the right side. (See photo 8)

PHOTOS

Photo 5

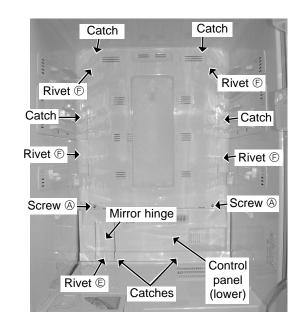
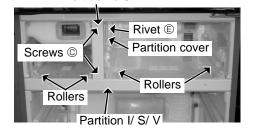


Photo 6



Partition I/S

Photo 7

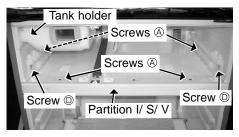
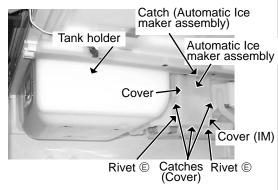


Photo 8



OPERATING PROCEDURE

Cover (lower)

(7)Remove rivet © (one rivet) to detach the cover (See photo 10)

Partition V/F

(8)Remove screw (a) (four screws) on inner wall and screw (a) (two screws) at the front.

Detach three connectors and lift up the partition. (See photo 9)

Connector cover (right/ left)

(9)To detach connector cover, remove rivet © (two rivets each) and catches (two places).

(See photo 10)

(10) Detach the connector.

Fan grille

- (11)To detach fan grille, remove screw ® (two screws) of right and left side and remove upper catches (three places).
 - * Fan grille consists of the following: motor dampers (for icemaking compartment/ versa compartment, and freezer compartment), refrigerator fan motor, fan, thermal fuse, vegetable compartment heater 1, four thermistors, vegetable compart ment LED.

(See photo 10)

Defrost heater, Drip tray

(12)To pull out defrost heater, remove the tape fixing lead wires and push up the catches of evaporator support. Remove heater roof out of defrost heater. To detach drip tray, remove aluminum tape first. (See figure 1)

Defrost thermistor (DEF thermistor)

(13)Cut the binder and disconnect the connector to remove the DEF thermistor and the thermal fuse. (See photo 11)

Attach defrost heater in place and loosen the lead wires in

Caution on assembly

order to prevent water from entering the glass tube.

Attach the drip tray securely to the lower parts.

Attach the DEF thermistor in place. (If they are attached out of place, thermal characteristics will go wrong.)

Attach the lead wires to the fixture.

PHOTOS

Photo 9

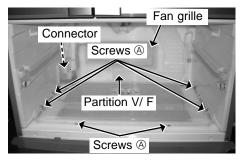
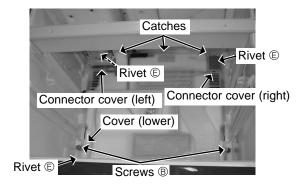


Photo 10



Fan grille

(Fan grille consists of the following: motor dampers (for ice making compartment / versa compartment, and freezer compartment), refrigerator fan motor, fan, thermal fuse, vegetable compartment heater 1 four thermistors, vegetable compartment LED).

Figure 1

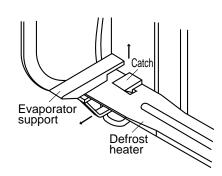
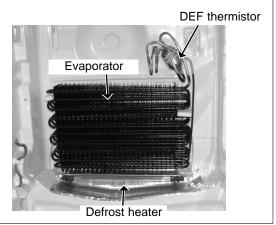


Photo 11



OPERATING PROCEDURE

4. Parts inside the refrigerator compartment → Left rail of the slide compartment → Parts inside the ice making compartment → Ice making compartment door → Tank holder → Door switch

- (1)Remove the parts inside the refrigerator compartment. (See procedure [2])
- (2)Remove the left rail of the slide compartment. (See procedure [2])
- (3) Remove the parts inside the ice making compartment. (See procedure [3])
- (4)Remove the ice making compartment door.

Tank holder

- (5)Remove a screw on the side of the refrigerator compartment.
- (6)Remove label and screw (a) (two screws). Pull the tank window.
- (7)Loosen screw (A) (three screws) halfway on the side of the ice making compartment. Put a screwdriver on the head of each screw and top the bottom side of the holder softly to detach it. (See photo 12)
- (8)Lift up the tank holder from the refrigerator compartment to remove it.

Note:

- ①Put the lead wires in place so that they do not get caught in water supply channel.
- ②Put the tank holder in place so that the water does not leak from it.

Door switch

(9)Insert a minus screwdriver between switch and body to remove the door switch.

5. Parts inside the versa compartment → Ceiling of versa compartment

- (1) Take out interior parts of versa compartment.
- (2)Lift up and pull out the versa-compartment door.

Ceiling of versa compartment

(3)To detach the ceiling, remove rivet
(c) (three rivets) and pull down the ceiling.
(See photo 13)

Caution on assembly

①Be sure that all the parts are fitted securely in place.

PHOTOS

Photo 12

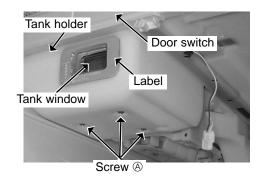


Figure 2

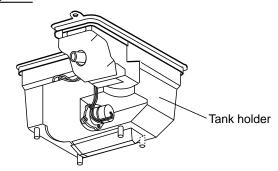
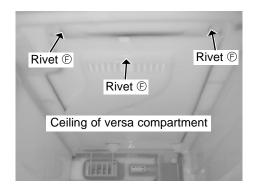


Photo 13



OPERATING PROCEDURE PHOTOS 6. Operation panel How to remove Figure 3 (1)Slide the operation panel in the direction of the arrows, unit it stops. (See figure 3.) (2)Pull out the operation panel as shown in a figure 4. Operation (See figure 4.) panel Note: ① Please pull it out carefully because it is still wired to the body. (3)Take out the panel by detaching the connector of lead wires from Figure 4 the body. (See figure 5.) Note: ① If the horizontal slide is hard to remove with hands, put plate on the right edge of the panel (please put protective object such as tapes on the area of contact on the door panel and the operation panel), and gently tap it in the sliding direction. Figure 5 (See figure 3.) Connector

7. Rotational heater board

- (1)Remove four fixing screws to remove the rotational heater board. (See photo 14)
- (2)Remove a screw on the wiring cover and disconnect the connector in the cover. (See photo 14)

Caution on assembly

When raising the rotational heater board, replace the rotational heater board as it was. if the refrigerator door is closed with the board raised, the rotational heater board may hit against the left door of refrigerator and be damaged.

Though heater preventing dewdrop may make rotational heater board hot, it does not affect food inside.

Refer to right figure when installing the rotational heater board. (See figure 6)

- Loosen the fixing screw and adjust a vertical (upper and lower) motion.
- •After assembling, make sure that the rotational heater board fits the guide properly and works properly.

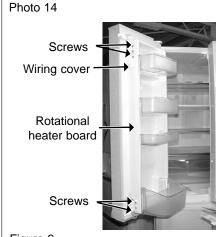


Figure 6

OPERATING PROCEDURE

8. Compressor cover → machine chamber fan motor

(1)Remove 7 screws for compressor cover at the back of the refrigerator.

Machine chamber fan motor

- (2) Remove screw one fizing screw of bellmouth and connector. Then pull out the bellmouth.
- (3) Pull out the fan from the fan motor.
- (4)Remove one lid-fixing screws to take out the fan motor.

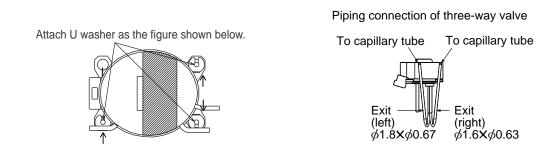
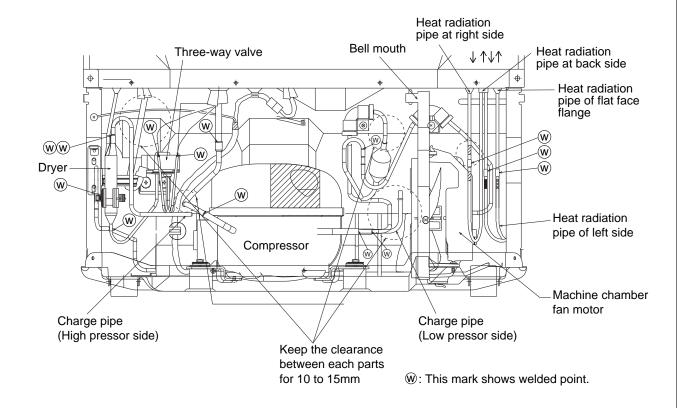


Figure 7

* Note 1: Form the pipe so that it can be slanted toward the upper right. (Approx. 15 degrees).



Door adjustment

- <Adjusting refrigerator compartment doors>
- Common elements

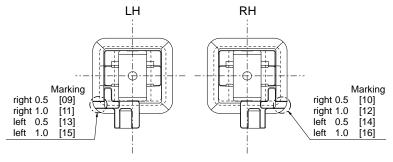
First, check the installation condition.

- ① If the adjustment bolt is not in contact with the floor, lower the bolt, and adjust it so that the caster is slightly above the floor.
- ② When the refrigerator is installed in the corner of the room, the bolt of the refrigerator may sink into the floor and cause the refrigerator to tilt. It is recommended to make adjustments by objects like boards beforehand.
- ③ When the refrigerator bolt is sunk into the floor, and it can be confirmed visually, prevent sinking by using objects like boards.

Note: The refrigerator weighs about 100kg, and is held by four bolts. How far each bolt sinks into the floor depends on factors such as floor pillars. Change in balance due to position of stored food (such as large or small amount of food stored in the door pockets) may also affect sinking.

<Adjusting ice making compartment and versa compartment doors>

	Adjusting doors horizontally	Adjusting vertical space between doors			
	Adjusting doors nonzontally	Too much space	Not enough space		
Problem	A>B (More space in outer side) ① Or A <b (more="" in="" inner="" side)<="" space="" td=""><td>A>B (Too much space between the ice making compartment and versa compartment doors.) Misaligned versa compartment door ③ Misaligned ice making compartment door ④</td><td>A<b (small="" and="" between="" compartment="" door="" doors.)misaligned="" ice="" making="" misaligned="" space="" td="" the="" versa="" ⑤="" ⑥<=""></td>	A>B (Too much space between the ice making compartment and versa compartment doors.) Misaligned versa compartment door ③ Misaligned ice making compartment door ④	A <b (small="" and="" between="" compartment="" door="" doors.)misaligned="" ice="" making="" misaligned="" space="" td="" the="" versa="" ⑤="" ⑥<="">		
Solution	 Place spacer set under the outer roller of the tilted door (ice making compartment door in the above illustration) to adjust position. Place spacer set under the inner roller of the tilted door (ice making compartment door in the above illustration) to adjust position. 	 ③ Replace roller set of the right and left versa compartment doors. a To adjust about 0.5mm Replace with roller set C. b To make large adjustment Replace with roller set D. ④ Replace lower roller set of the ice making compartment door. c To adjust about 0.5mm Replace with roller set A. d To make large adjustment Replace with roller set B. 	 ③ Place roller set of the right and left versa compartment doors. a To adjust about 0.5mm Replace with roller set A. b To make large adjustment Replace with roller set B. ⑤ Replace lower roller set of the ice making compartment door. c To adjust about 0.5mm Replace with roller set C. d To make large adjustment Replace with roller set D. 		

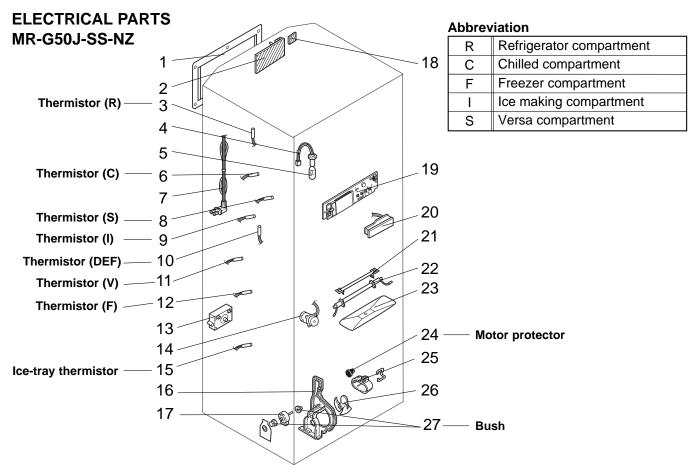


I dentifying roller sets (Marking)

, ,	Ο,	
	LH	RH
Roller set A (0.5mm to the right)	09	10
Roller set B (0.5mm to the right)	11	12
Roller set C (0.5mm to the right)	13	14
Roller set D (0.5mm to the right)	15	16

ROHS PARTS LIST

9

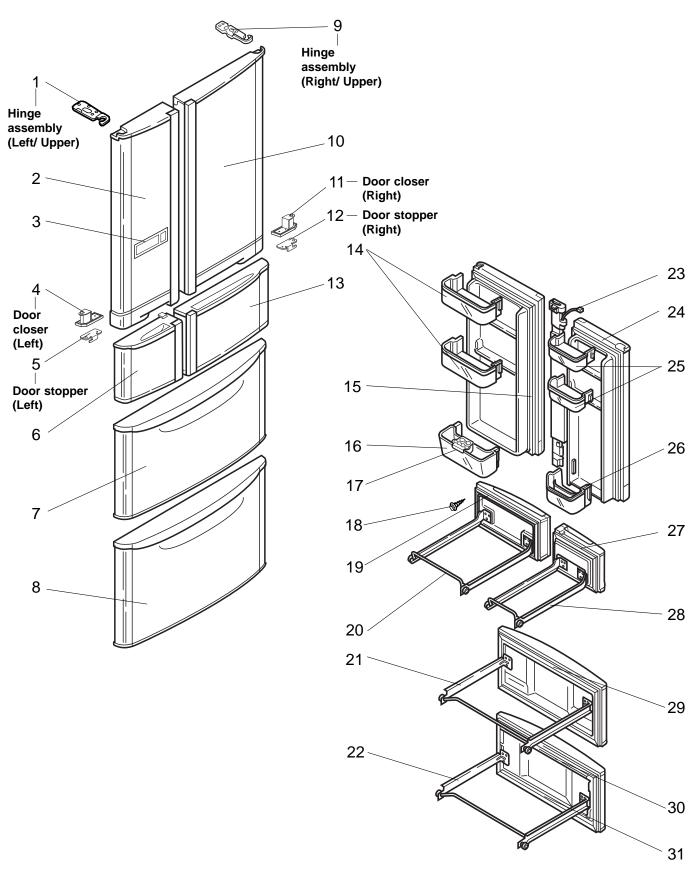


	ဟ			Spec.	MR-G50J
No.	oHS	Part No.	Part name		
	Ř			Drawing No.	SS
1	G	T1W 01W 328	Elect cover		1
2	G	T1W 13W 339	Control board		1
3	G	T1W 06W 312	Refrigerator compartment thermistor		1
4	G	T1W 06W 366	Room light socket		1
5	G	T1W 01W 360	Refrigerator compartment room light	240V,10W	1
6	G	M20 KA3 313	Chilled compartment thermistor		1
7	G	T1W 13W 395	Plug cord assembly		1
8	G	M20 KA2 313	Versa compartment thermistor		1
9	G	M20 KA7 313	Ice making compartment thermistor		1
10	G	M20 KA0 311	Defrost thermistor		1
11	G	T1W 06W 316	Vegetable compartment thermistor		1
12	G	M20 KA1 313	Freezer compartment thermistor		1
13	G	T1W 01W 469	Gear box	In the automatic ice maker	1
14	G	M20 KA0 327	Motor (Water tank)		1
15	G	T1W 01W 316	Ice-tray thermistor		1
16	G	M20 KW0 656	Bell mouth		1
17	G	M20 KA0 325	Machine chamber fan motor	UDQM004B3	1
18	G	T1W 02W 339	Filter board		1
19	G	T1W 06W 338	Operation P.C. board	With operation P.C. board box	1
20	G	T1W 06W 388	Door switch		1
21	G	T1W 06W 537	Heater roof		1
22	G	T1W 13W 392	Defrost heater	230V,163W / Deodorizing function not equipped	1
23	G	M20 KG0 536	Drip tray	Equipped with fixing tape	1
24	G	M20 KA0 340	Motor protector	MM3-71CCV	1
25	G	M20 KL0 341	Terminal cover		1
26	G	M20 KW1 321	Fan		1
27	G	M20 KW0 329	Bush		2
28	G	T1W 01W 304	Lead wire assembly	Lead wire of compressor	1
29	G	M20 KG0 304	Lead wire assembly	Lead wire of fan motor in machine room	1

DOOR PARTS MR-G50J-SS-NZ

Abbreviation

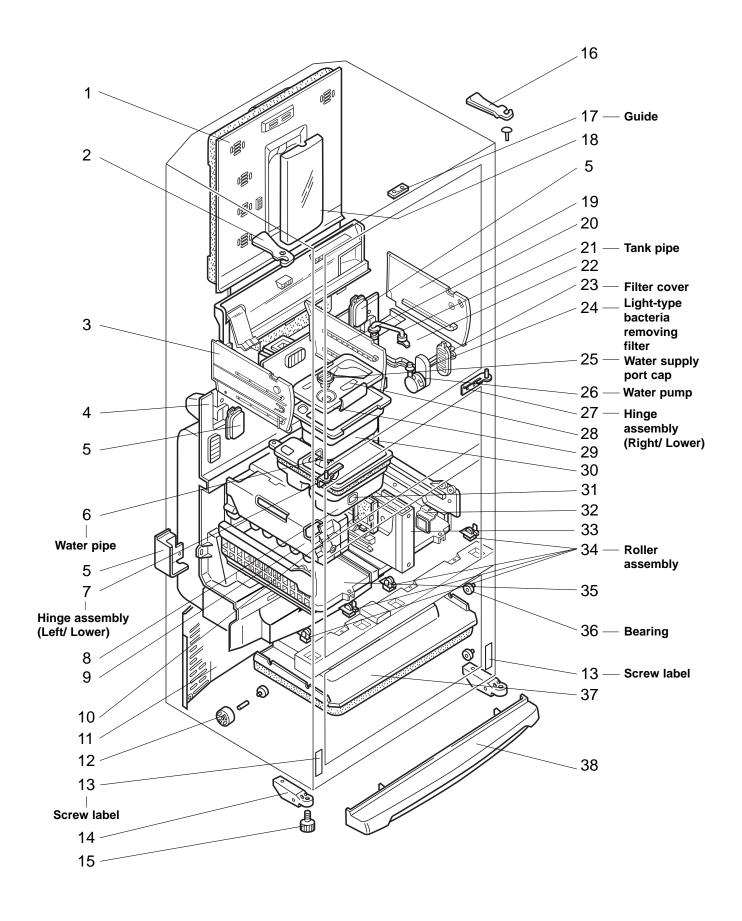
R/L	Refrigerator compartment (Left)	F	Freezer compartment
1	Ice making compartment	R/R	Refrigerator compartment (Right)
V	Vegetable compartment	S	Versa compartment



	ဟ			Spec.	MR-G50J
No.	oHS	Part No.	Part name	or	NZ
	ď			Drawing No.	SS
1	G	T1W 01W 70	Hinge assembly (Left/ Upper)		1
2	G	T1W 13W 00	Outer door panel (R/L)	With hinge assembly (Left/ Upper), *1	1
3	G	T1W 07W 85	2 Operation panel		1
4	G	M20 KL1 02	Door closer (Left)		1
5	G	M20 KW4 74	7 Door stopper (Left)		1
6	G	T1W 13W 00	Outer door panel (I)	Without gasket	1
7	G	T1W 13W 00	Outer door panel (V)	Without gasket	1
8	G	T1W 13W 00	Outer door panel (F)	Without gasket	1
9	G	M20 KA1 70	Hinge assembly (Right/ Upper)		1
10	G	T1W 13W 00		Without gasket, With hinge assembly (Right/ Upper)	1
11	G	M20 KE5 02	Door closer (Right)		1
12	G	M20 KW8 74	Door stopper (Right)		1
13	G	T1W 13W 00	Outer door panel (S)	Without gasket	1
14	G	M20 KG0 12	Free pocket (L)		2
15	G	M20 KG1 11	Door gasket (R/R)		1
16	G	M20 KG0 12	Bottle pocket (L)		1
17	G	M20 KG0 13	Tube stand		1
18	G	M20 KL0 93	Frame screw	6 pieces included	4
19	G	M20 KG0 11	Door gasket (S)		1
20	G	M20 KG1 15	Frame (S)		1
21	G	M20 KG0 15	Frame (V)		1
22	G	M20 KG0 15	Frame (F)		1
23	G	T1W 06W 05	Rotational heater board		1
24	G	M20 KG2 11	Door gasket (R/L)		1
25	G	M20 KG0 11	Free pocket (M)		2
26	G	M20 KG0 12	Bottle pocket (S)		1
27	G	M20 KG0 11	Door gasket (I)		1
28	G	M20 KG1 15	Frame (I)		1
29	G	M20 KG0 11	Door gasket (V)		1
30	G	M20 KG0 11	Door gasket (F)		1
31	G	M20 KG0 10	Packing (F)	For interior board of freezer compartment door	1
32	G	M20 KL0 60	Spring (Rotational heater board)	-	1
33	G	M20 KW0 71	Upper hinge assembly (Rotational heater board)		1
34	G	T1W 06W 71	Lower hinge assembly (Rotational heater board)	With spring	1

^{*1}: Without gasket, Operation panel, Operation P.C. board, Rotational heater board.

BODY PARTS MR-G50J-SS-NZ



Abbreviation

R.V.	Between refrigerator compartment and vegetable compartment			
I.M. Ice maker				
I.S.	Between ice making compartment and versa compartment			
V.F.	Between vegetable compartment and freezer compartment			
I.S.V	Between ice making compartment, versa compartment and vegetable compartment			

	<u>o</u>			Spec.	MR-G50J
No.	OHS	Part No.	Part name	or	NZ
	~			Drawing No.	SS
1	G	T1W 06W 858	Control panel assembly	*1	1
2	G	M20 KL0 705	Hinge cover (Left)		1
3	G	T1W 06W 863	Left rail of slide compartment		1
4	G	T1W 06W 663	Fan grille	*2	1
5	G	T1W 06W 808	Connector cover (Fan grille)	Three types; One cover each	1
6	G	M20 KA0 525	Water pipe		1
7	G	M20 KA1 702	Hinge assembly (Left/ Lower)		1
8	G	T1W 01W 521	Water tank holder	*3	1
9	G	T1W 01W 350	Automatic ice maker assembly	With ice making tray heater	1
10	G	M20 KL1 442	Cover I.M. assembly		1
11	G	T1W 06W 652	Compressor cover		1
12	G	M20 KA0 794	Caster set		2
13	G	M20 KW0 709	Screw label		2
14	G	M20 KA0 795	Caster assembly		2
15	G	M20 KA0 460	Adjustment bolt		2
16	G	M20 KW0 707	Hinge cover (Right)		1
17	G	M20 KW1 835	Guide		1
18	G	M20 KK4 470	Room light cover		1
19	G	M20 KL0 864	Right rail of slide compartment		1
20	G	M20 KL0 802	Vertical partition		1
21	G	M20 KL0 503	Tank pipe		1
22	G	M20 KG0 802	Ceiling of versa compartment		1
23	G	M20 KW3 442	Filter cover		1
24	G	M20 KW0 526	Light-type bacteria removing filter	Combined with photocatalyst	1
25	G	M20 KL0 531	Water supply port cap		1
26	G	M20 KW0 519	Water pump		1
27	G	M20 KA0 702	Hinge assembly (Right/ Lower)		1
28	G	M20 KL0 527	Water tank cover		1
29	G	M20 KL0 106	Packing (Water tank cover)		1
30	G	M20 KL0 520	Water tank assembly	*4	1
31	G	T1W 01W 524	Tank window		1
32	G	M20 KL2 442	Partition cover		1
33	G		Partition (I.S)	With heater board	1
34	G	M20 KL0 803	Roller assembly	A set for both sides	2
35	G	M20 KG1 846	-		1
36	G	M20 KG1 798			4
37	G	T1W 06W 846		With vegetable compartment heater 2	1
38	G	T1W 07W 730	Toe grille	. 3	<u>.</u> 1
39	G	M20 KG0 712	Spacer set	For difference adjustment of the I-door and the S-door	2
40)		M20 KW0 805	=	2000	1
(41)			Thermistor (I) cover	In the automatic ice maker	<u> </u>
(42)	G	T1W 06W 107	Packing (Upper)	Compartment side (Upper part)	 1
43		M20 KG0 798	Bearing F/V	, (opposite)	4

^{*1:} With motor damper for refrigerator compartment / slide chilled compartment, refrigerator compartment thermistor, slide chilled compartment thermistor, room light socket, refrigerator compartment room light, and duct R (upper/ lower).

^{*2:} With thermal fuse, motor dampers for ice making compartment / versa compartment, and freezer compartment / refrigerator fan motor, fan, vegetable compartment heater 1, thermistors (for versa compartment, ice making compartment, vegetable compartment, and freezer compartment), LED for vegetable compartment.

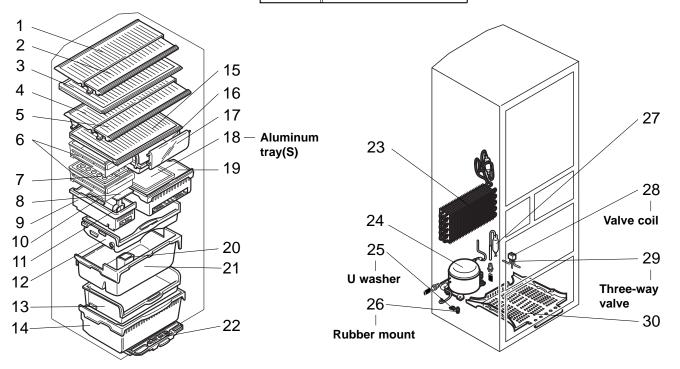
^{*3:} With water pump motor, water pipe and LED for bacteria removal from water tank.

^{*4:} With tank pipe, filter cover, light-type bacteria removing filter, water pump, water supply port cap, water tank cover and packing (water tank cover).

ACCESSORY AND UNIT PARTS MR-G50J-SS-NZ

Abbreviation

F	Freezer compartment	S	Versa compartment
V	Vegetable compartment		



	ဟ			Spec.	MR-G50J
No.	oHS	Part No.	Part name	or	NZ
	Σ.			Drawing No.	SS
1	G	M20 KG0 427	Two-way flexishelf (Rear)	-	1
2	G	M20 KG1 428	Two-way flexishelf (Front)		1
3	G	M20 KG1 423	Height adjustable shelf		1
4	G	M20 KG1 427	Three-way flexishelf (Rear)		1
5	G	M20 KG1 428	Three-way flexishelf (Front)		1
6	G	M20 KL0 122	Small item case		2
7	G	M20 KL1 115	Free egg shelf (S)		2
8	G	M20 KG0 483	Ice mat	Blue (upper mat)	1
9	G	M20 KG0 467	Ice storage bin	, , ,	1
10	G	M20 KG1 483	Soundproof mat	White (lower mat)	1
11	G	M20 KW0 462	Ice server		1
12	G	M20 KG1 406	Slide case (V)		1
13	G	M20 KG1 414	Freezing case (Upper)		1
14	G	M20 KG1 451	Freezing case (Lower)		1
15	G	M20 KG0 456	Ceiling of slide compartment		1
16	G	M20 KG0 411	Slide chilled case		1
17	G	M20 KG0 418	Slide chilled case lid		1
18	G	M20 KG0 437	Aluminum tray (S)		1
19	G	M20 KG0 444	Versa case		1
20	G	M20 KG0 404	Vegetable stand		1
21	G	T1W 06W 405	Vegetable case		1
22	G	M20 KW0 435	Drain pan		1
23	G		Evaporator assembly		1
24	G		Compressor	ETI100E13DAH	1
25	G	These part	U washer	3 washers	1
26	G	numbers will	Rubber mount	Operation manual provided, 4 pieces included	1
27	G		Dryer pipe set		1
28	G	be informed	Valve coil		1
29	G	later.	Three-way valve	With valve coil	1
30	G	,	Radiator plate assembly		1
31)	G		Packing (Radiator plate)		1



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